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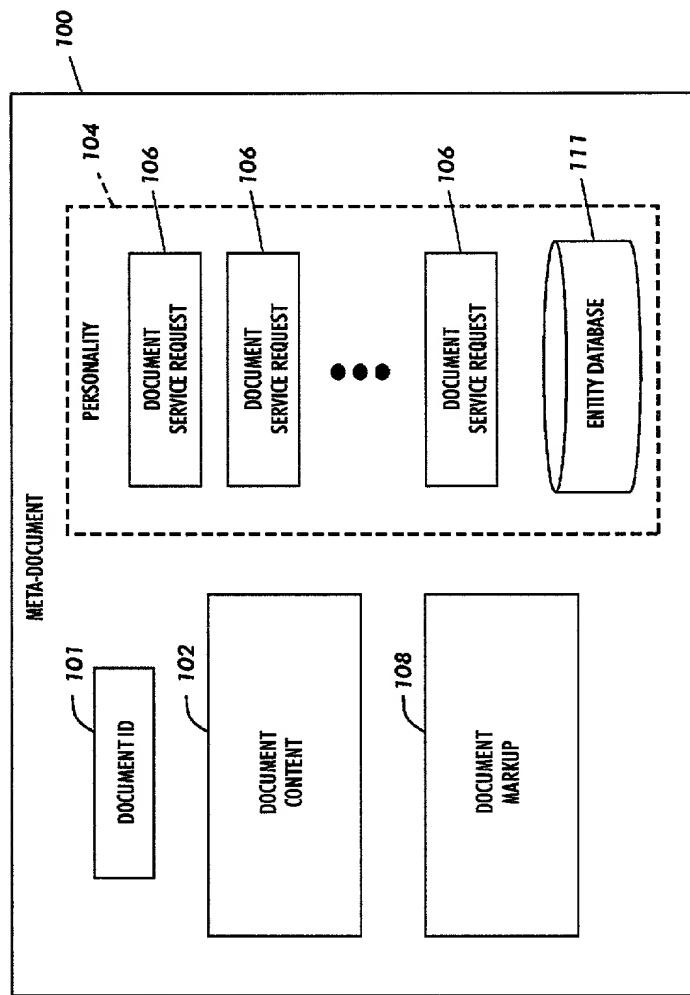


FIG. 1

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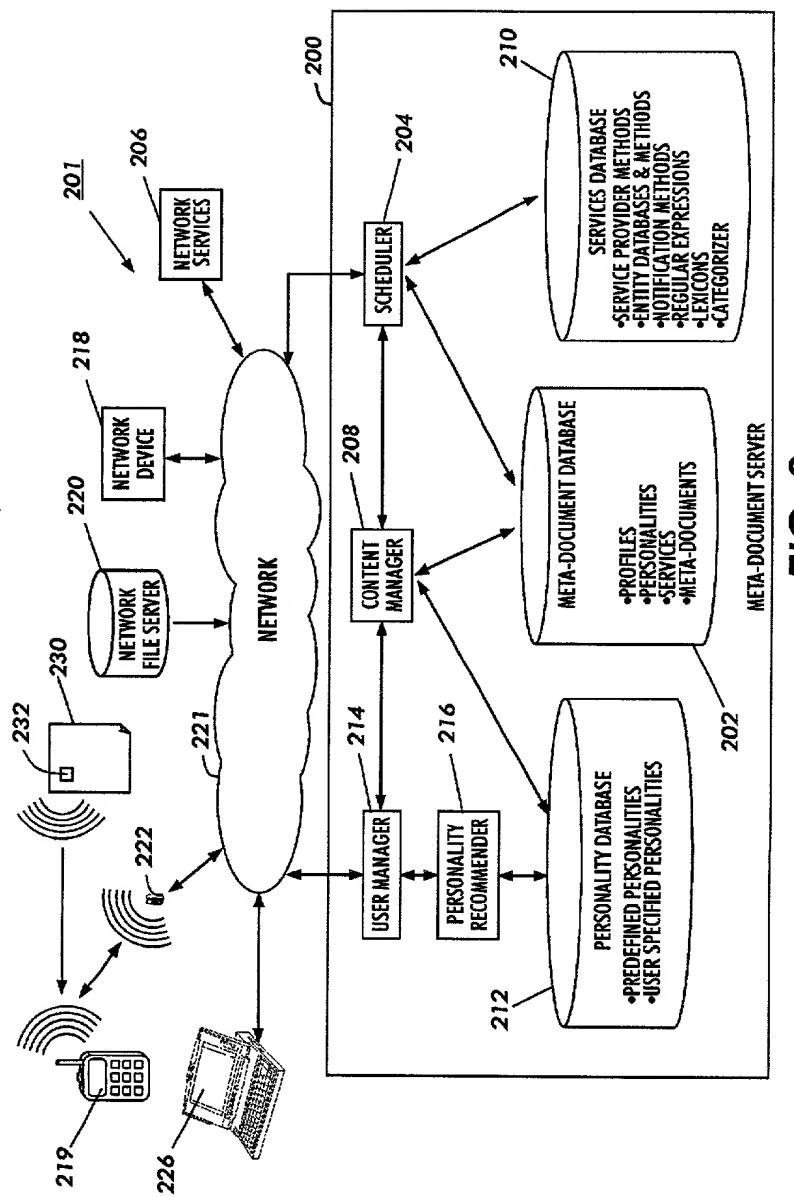


FIG. 2

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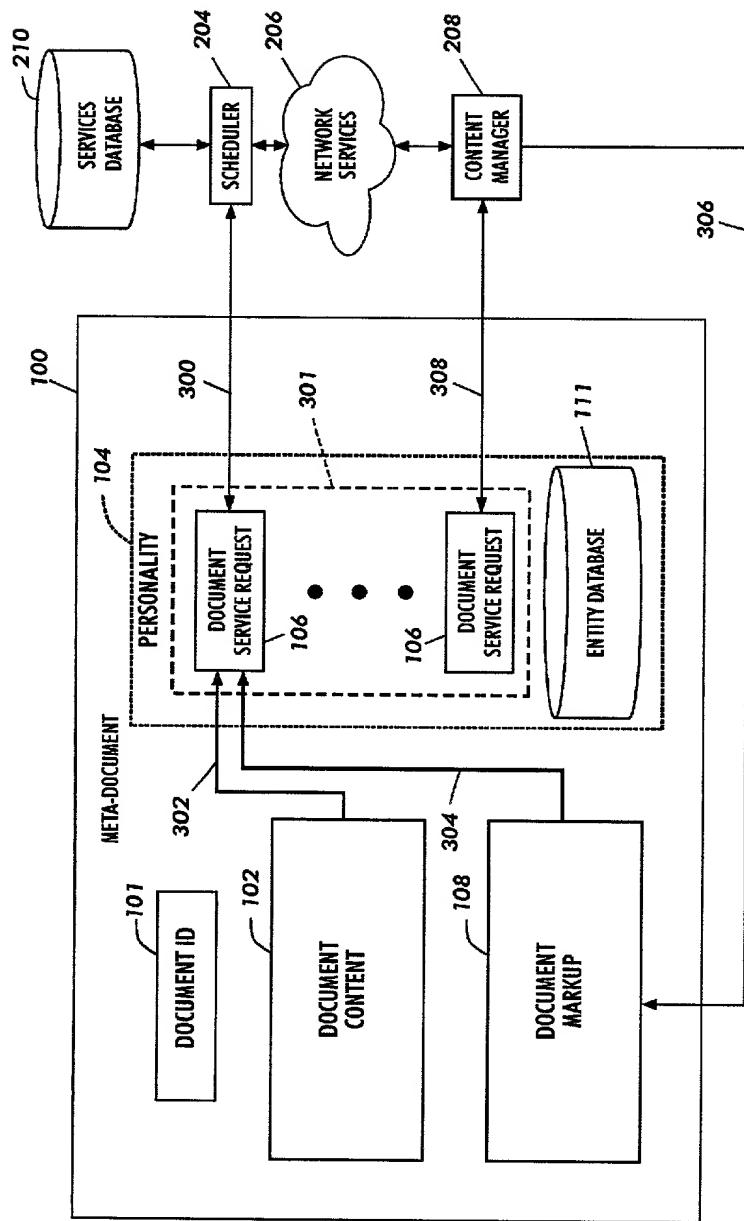


FIG. 3

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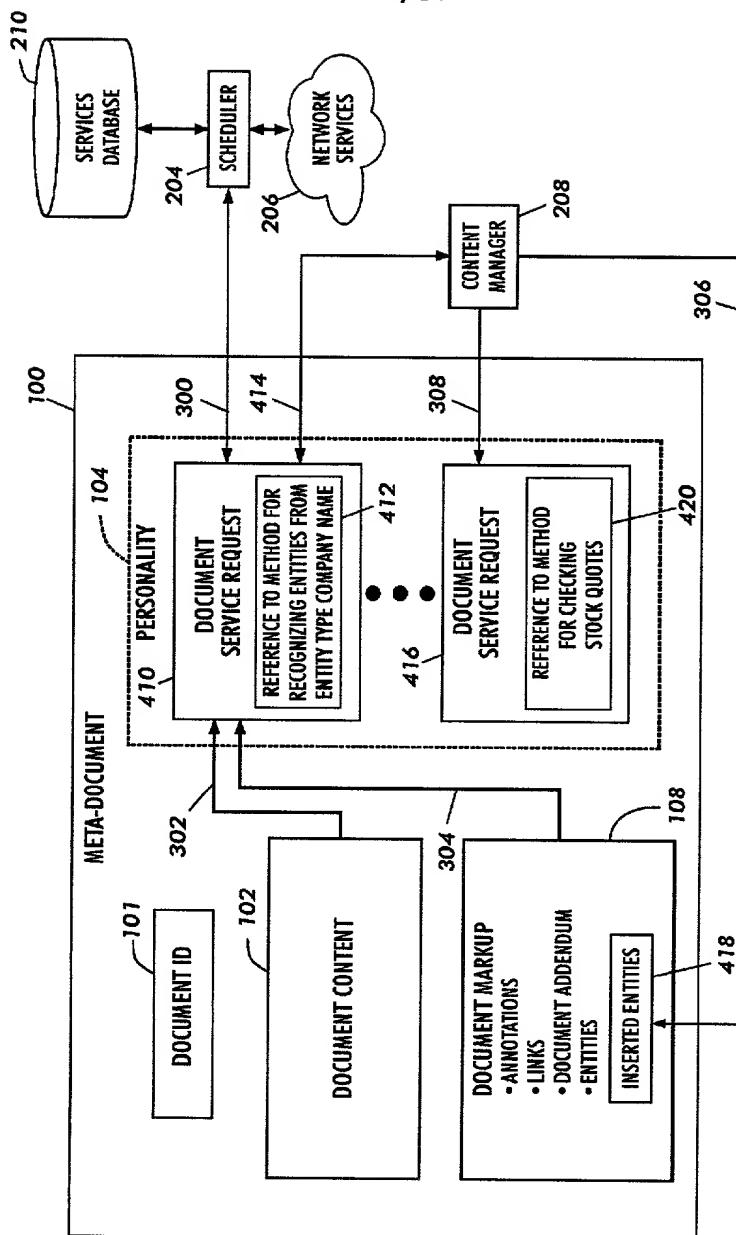


FIG. 4

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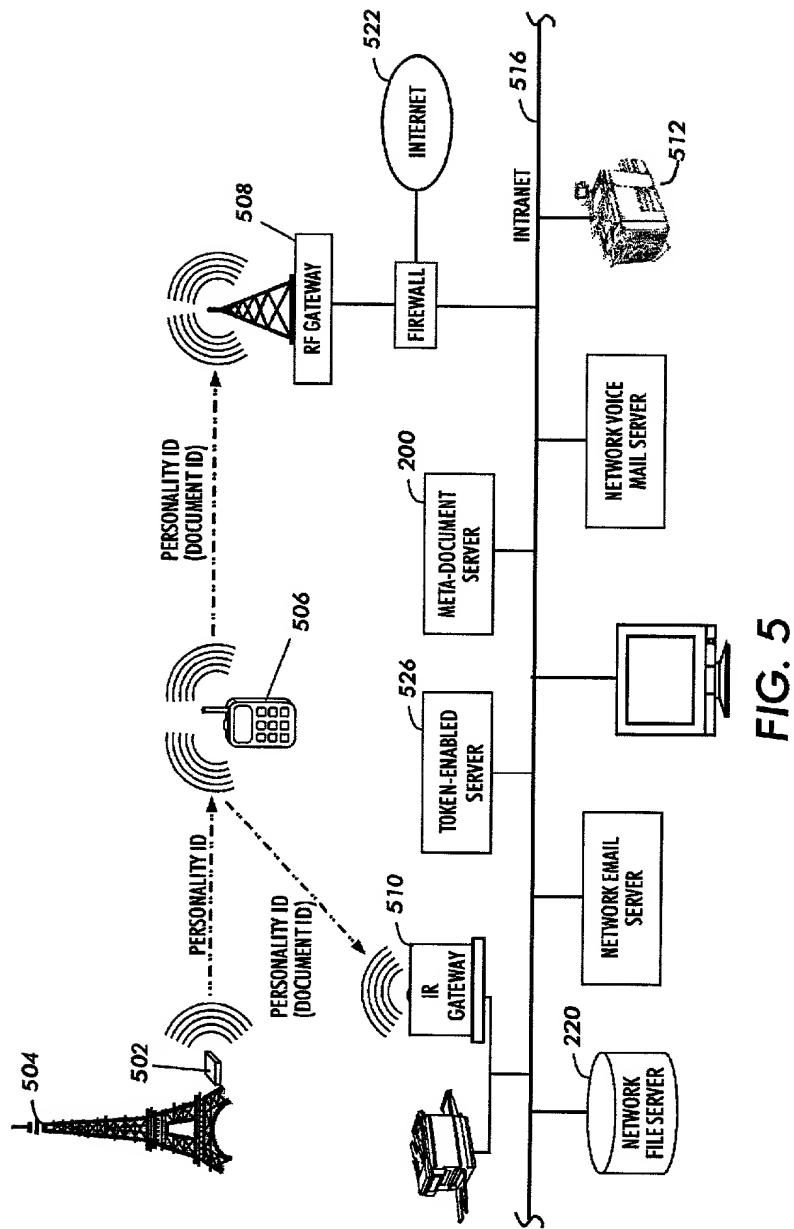


FIG. 5

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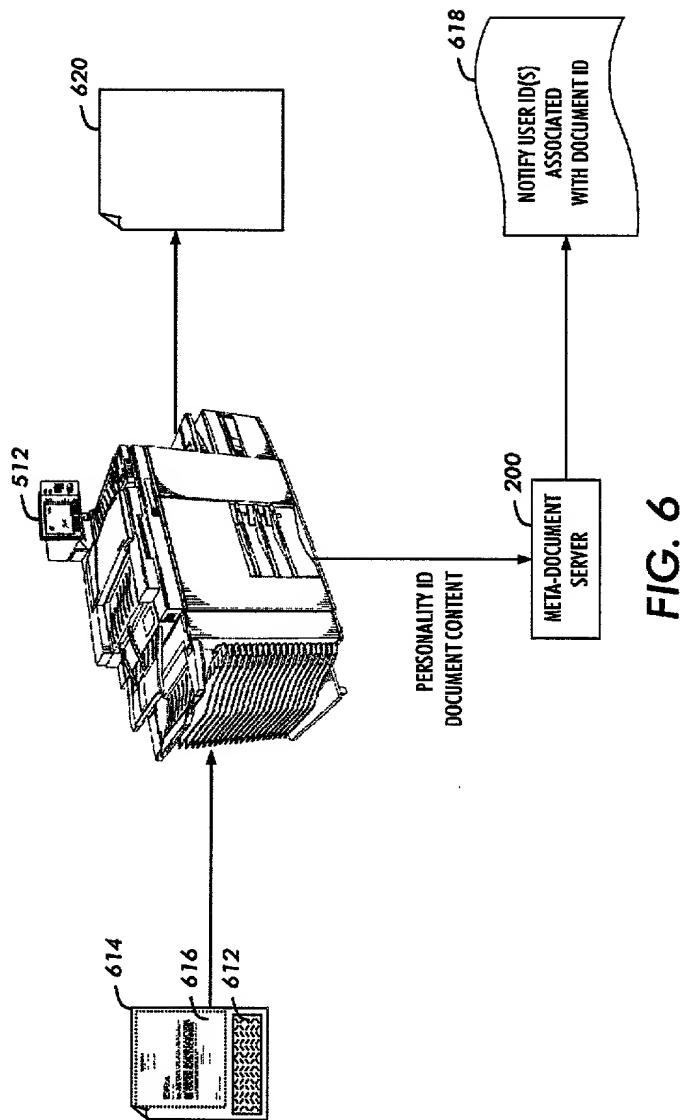
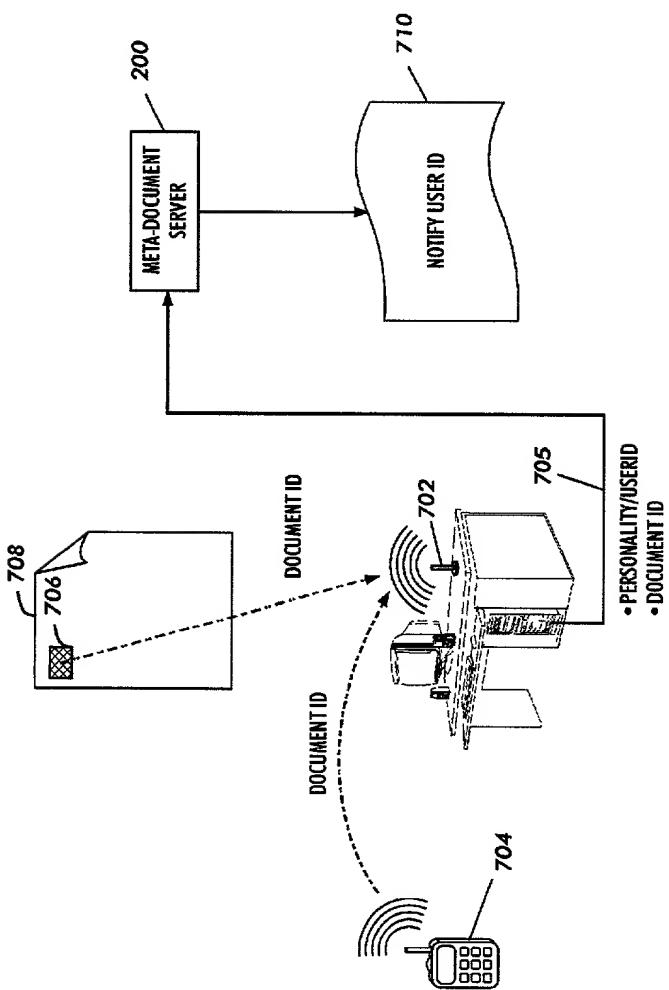


FIG. 6

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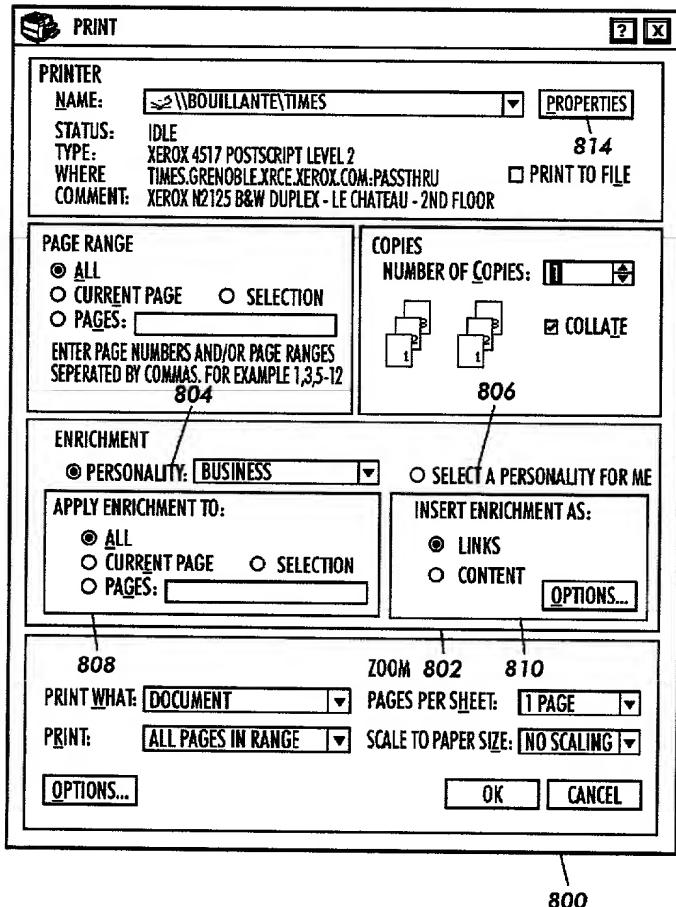


FIG. 8

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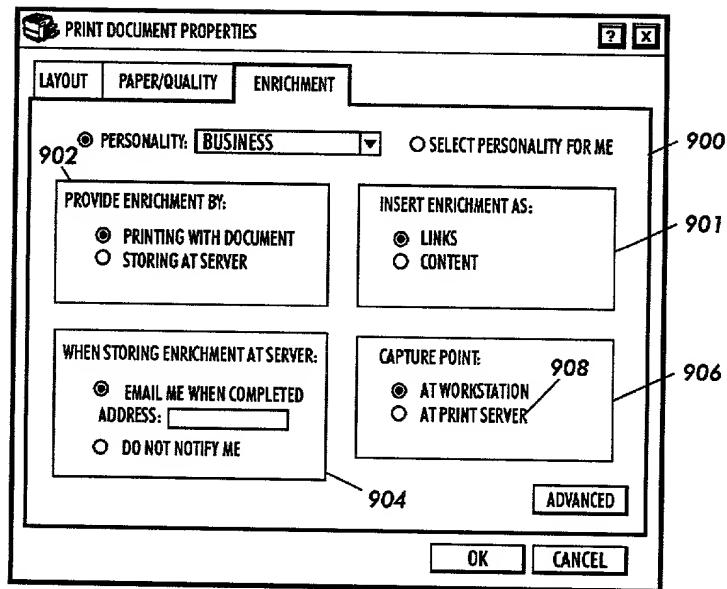


FIG. 9

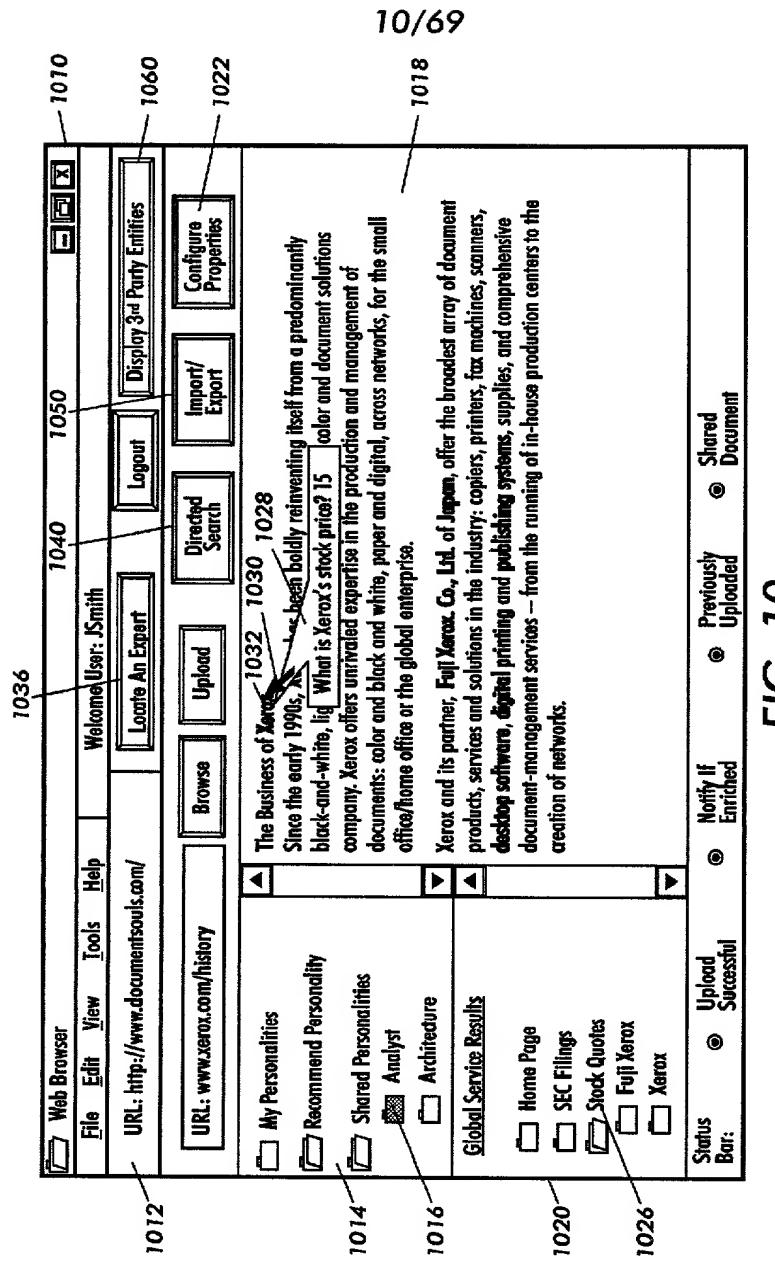


FIG. 10

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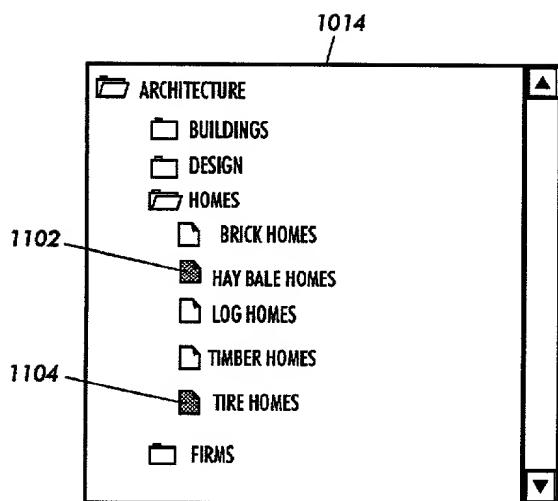


FIG. 11

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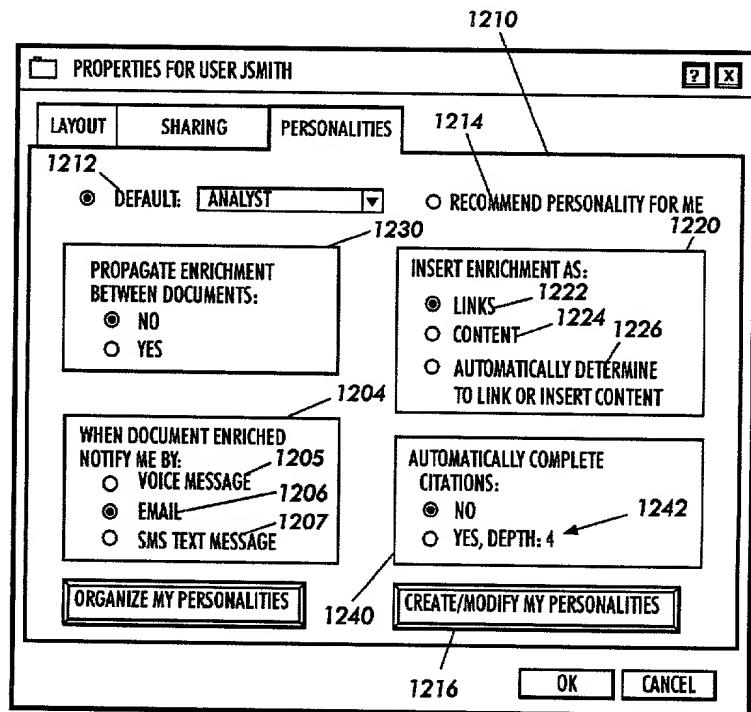


FIG. 12

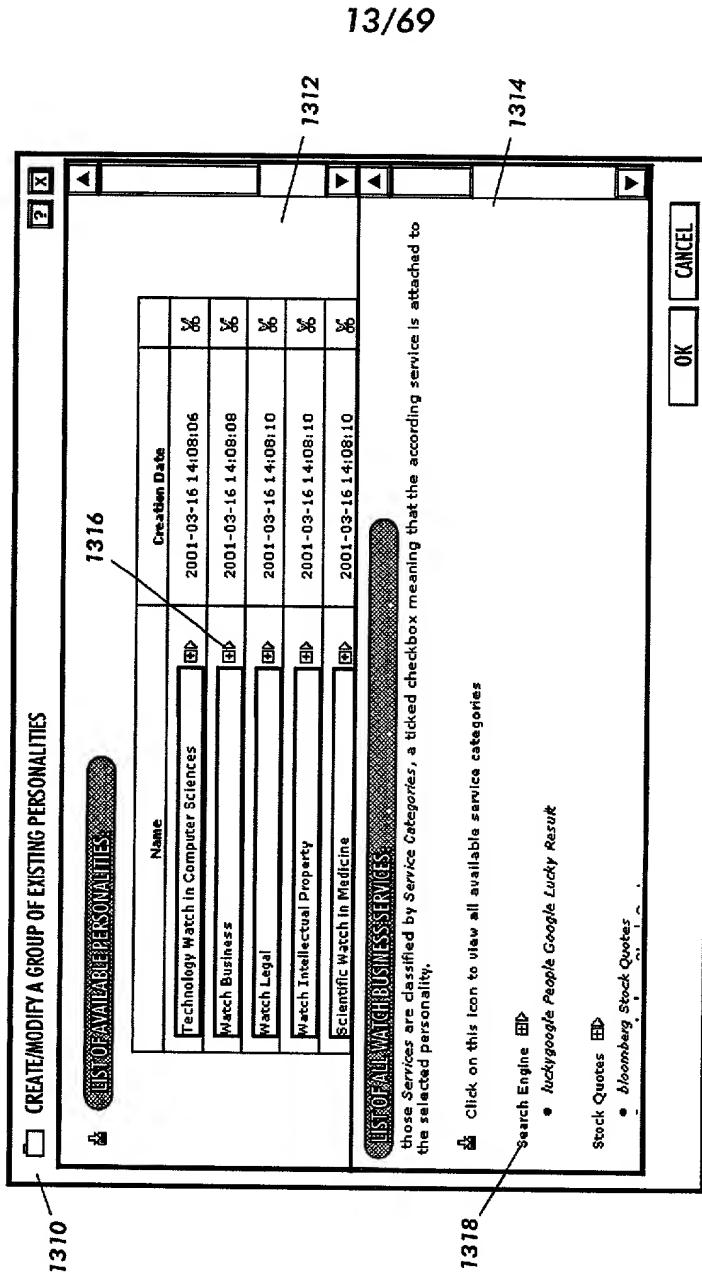


FIG. 13

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SEL	NAME	ENTITY TYPE	ANIMATE	DEPTH	PROVIDER	COST	QUERY	REFRESH
<input checked="" type="checkbox"/>	COMPUTING	COMPUTING	ALWAYS	0	YAHOO	FREE	LINK	DAILY
<input type="checkbox"/>	BIOLOGY	BIOLOGY	ALWAYS	0	GOOGLELUCKY	NULL	LINK	NEVER
<input type="checkbox"/>	MEDICINE	MEDICINE	ALWAYS	0	ALTAVISTA	FEF	LINK	AUTO
<input type="checkbox"/>	APPLY PAIRS OF ENTITIES AND IDENTIFY 3RD PARTY ENTITIES	COMPANIES	EXPERT	0	GOOGLELUCKY	NULL	CONTENT	NULL
<input type="checkbox"/>	APPLY PAIRS OF ENTITIES USING GOOGLELUCKY	PRODUCTS	ALWAYS	2	NORTHERNLIGHTS	NULL	LINK	WEEKLY
<input type="checkbox"/>	COUNTRIES	COUNTRIES	NOVICE	0	GOOGLELUCKY	FEF	CONTENT	UNTIL 2003
<input type="checkbox"/>	ASTRONOMY	ASTRONOMY	ALWAYS	1	GOOGLE	NULL	LINK	MONTHLY
<input checked="" type="checkbox"/>	PEOPLE	PEOPLE	ALWAYS	3	GOOGLE PEOPLE	NULL	LINK	NULL

1452 1451 1455 1454 1453 1456 1450 1444 1440 1430 1414 1412 1400 1426 1418

1424 1432

VIEW HIERARCHY
SET DEPTH

FIG. 14

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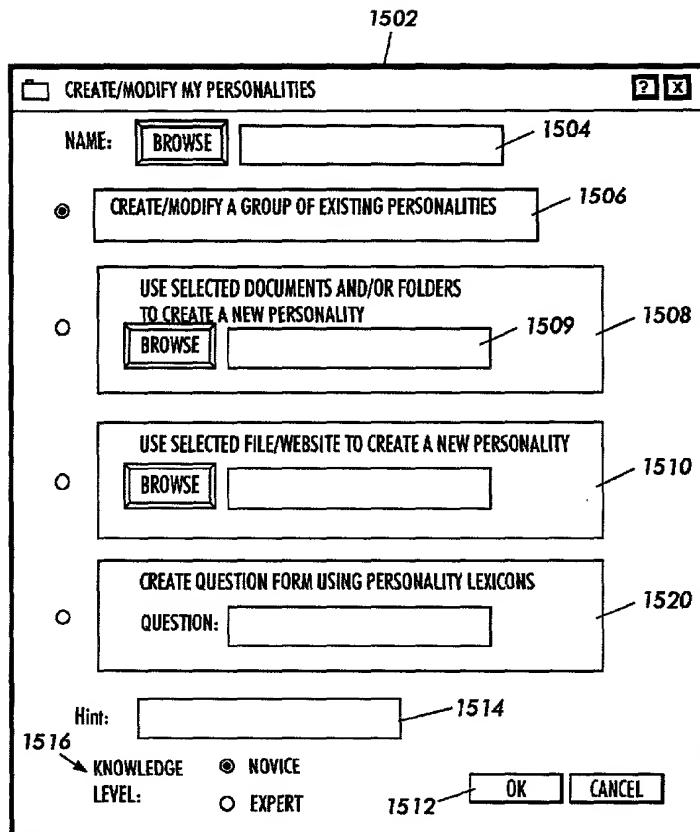


FIG. 15

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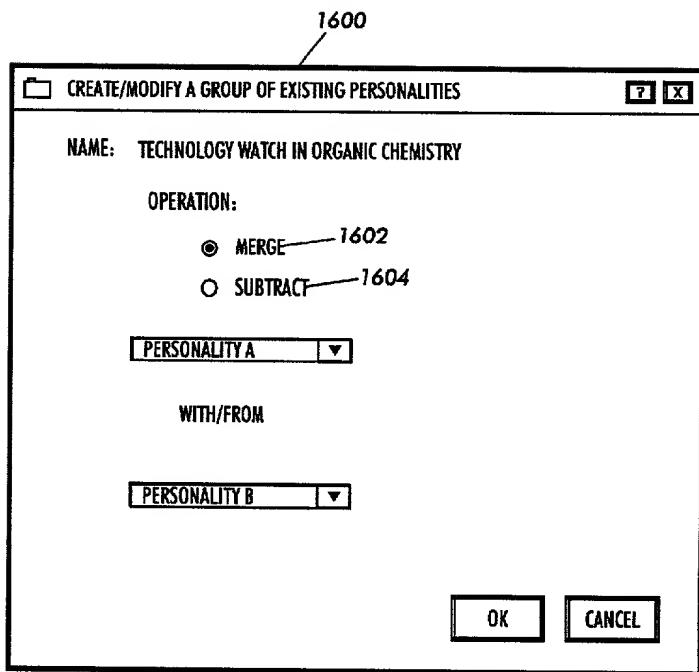


FIG. 16

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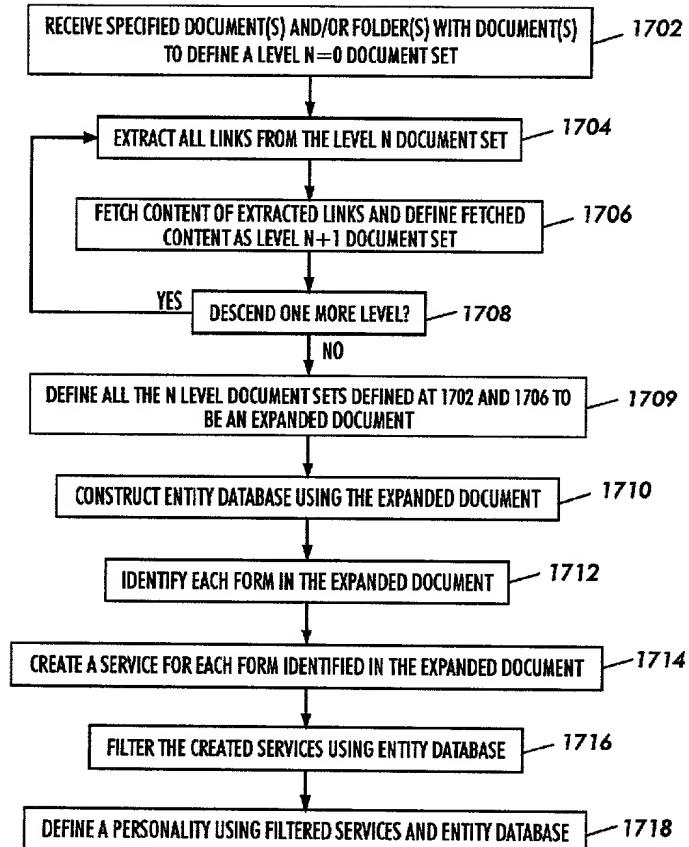


FIG. 17

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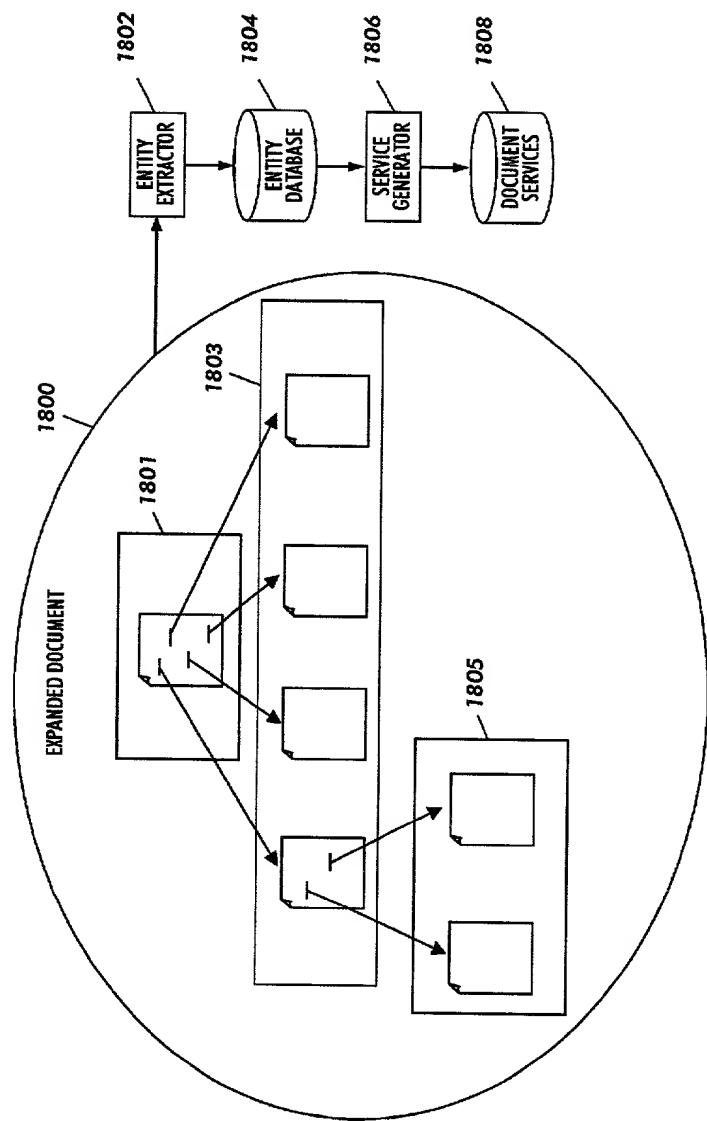


FIG. 18

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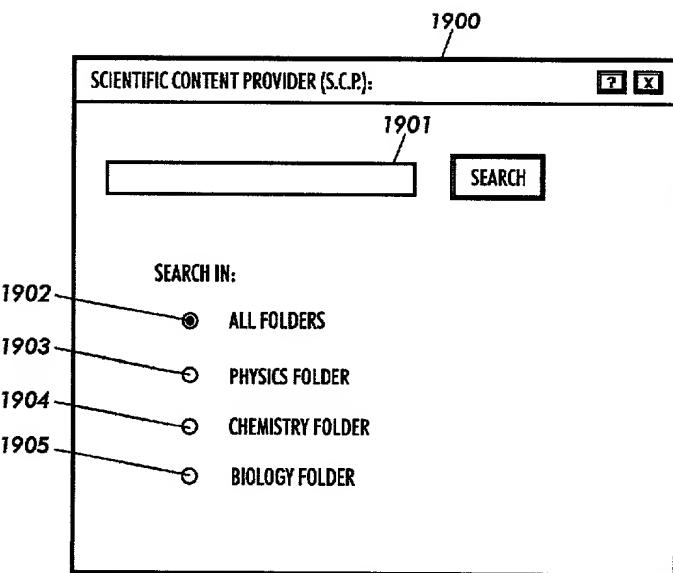


FIG. 19

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Scientific Search						
SEL	NAME	ENTITY TYPE	ANNOTATE	DEPTH	PROVIDER	COST
<input checked="" type="checkbox"/>	ALL FOLDERS RESULT OF SCIENTIFIC CONTENT PROVIDER	STANDARD	ALWAYS	0	\$,C,P.	FREE
<input type="checkbox"/>	PHYSICS RESULT OF SCIENTIFIC CONTENT PROVIDER	PHYSICS	ALWAYS	0	\$,C,P.	FREE
<input type="checkbox"/>	CHEMISTRY RESULT OF SCIENTIFIC CONTENT PROVIDER	CHEMISTRY	ALWAYS	0	\$,C,P.	FREE
<input type="checkbox"/>	BIOLOGY RESULT OF SCIENTIFIC CONTENT PROVIDER	BIOLOGY	ALWAYS	0	\$,C,P.	FREE

FIG. 20

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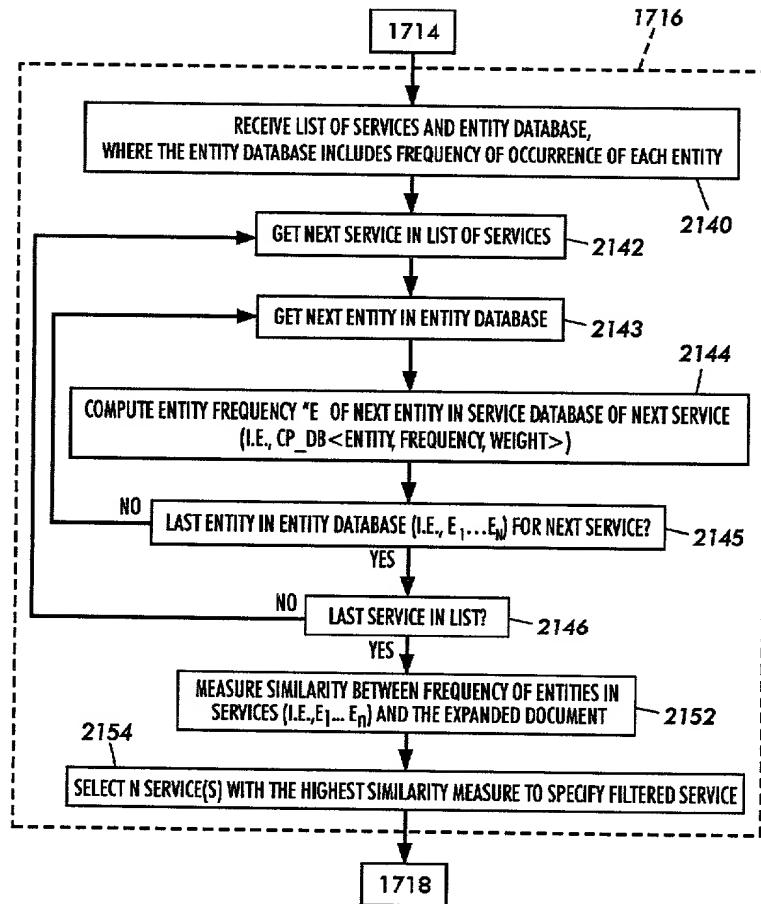


FIG. 21

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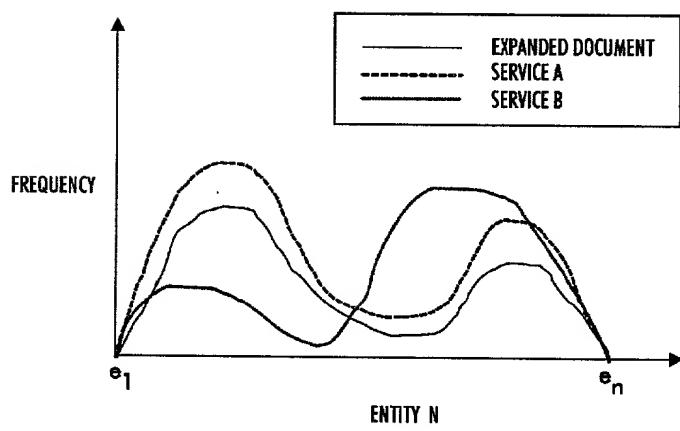


FIG. 22

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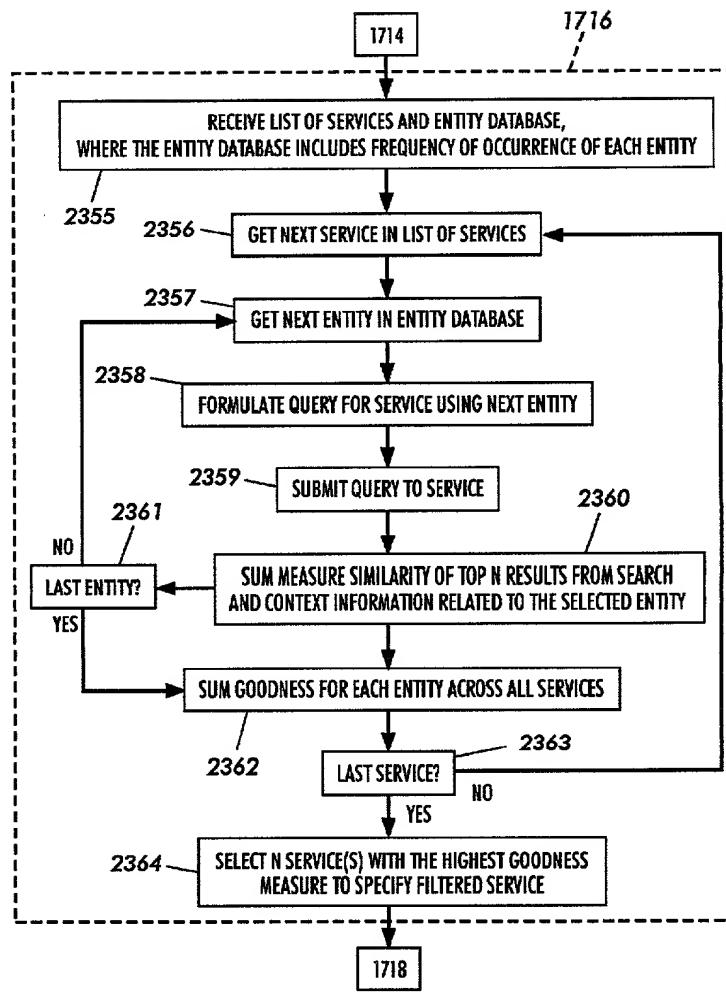


FIG. 23

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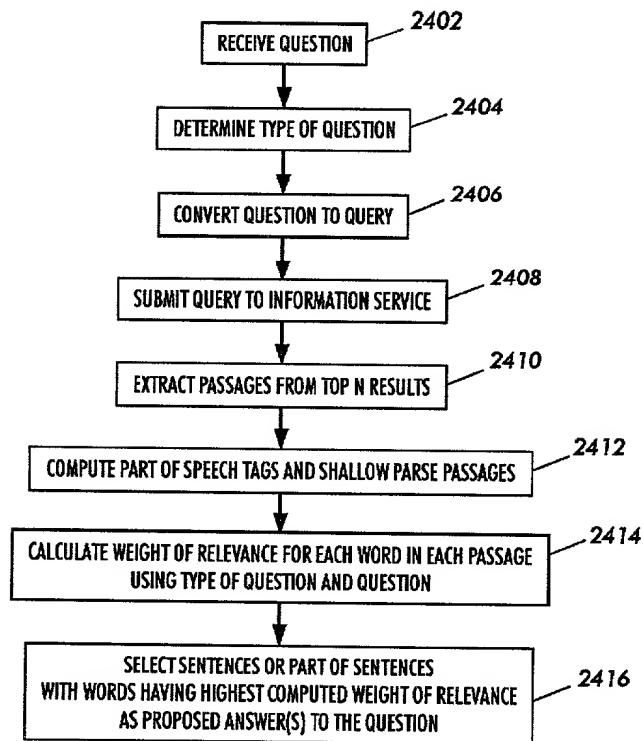


FIG. 24

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E-LEARNING SERVICES ASSOCIATED WITH E-LEARNING PERSONALITY	
SEL	<input checked="" type="checkbox"/> LINK WORDS OR MULTIWORLD EXPRESSIONS FOUND IN THE DOCUMENT TO THEIR DEFINITIONS
2504	<input checked="" type="checkbox"/> LINK WORDS OR MULTIWORLD EXPRESSIONS FOUND IN THE DOCUMENT TO THEIR TRANSLATIONS
2506	<input type="checkbox"/> LINK EACH TEXT UNIT (I.E., DOCUMENT, PARAGRAPH, PHRASE, WORD) TO A TUTORIAL CONCERNING EACH TEXT UNIT
2508	<input type="checkbox"/> LINK EACH TEXT UNIT (I.E., DOCUMENT, PARAGRAPH, PHRASE, WORD) TO AN EXPERT CONCERNING IDENTIFIED SUBJECTS
2510	<input type="checkbox"/> LINK EACH TEXT UNIT (I.E., DOCUMENT, PARAGRAPH, PHRASE, WORD) TO AN INTERACTIVE COURSE ABOUT IDENTIFIED SUBJECTS
2512	<input type="checkbox"/> LINK EACH TEXT UNIT (I.E., DOCUMENT, PARAGRAPH, PHRASE, WORD) TO A LIST OF REAL WORLD CLASSES ABOUT IDENTIFIED SUBJECTS
2514	<input type="checkbox"/> LINK EACH TEXT UNIT (I.E., DOCUMENT, PARAGRAPH, PHRASE, WORD) LEARNING RESOURCES CONCERNING EACH TEXT UNITS
2516	<input type="checkbox"/> LINK TEXT UNITS TO (I.E., DOCUMENT, PARAGRAPH, PHRASE, WORD) LEARNING RESOURCES CONCERNING EACH TEXT UNITS

FIG. 25

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LANGUAGE LEARNING SERVICES ASSOCIATED WITH LANGUAGE LEARNING PERSONALITY	
2602	/
SEL	
2604	<input checked="" type="checkbox"/> LINK WORDS OR MULTWORD EXPRESSIONS FOUND IN THE DOCUMENT TO THEIR DEFINITIONS
2606	<input type="checkbox"/> LINK WORDS OR MULTWORD EXPRESSIONS FOUND IN THE DOCUMENT TO THEIR TRANSLATIONS
2608	<input type="checkbox"/> LINK EACH SENTENCE, OR PHRASE, TO A GRAMMATICAL DESCRIPTION OF THE STRUCTURE OF THE SENTENCE OR PHRASE
2610	<input type="checkbox"/> LINK EACH WORD, MULTWORD EXPRESSION, PHRASE OR SENTENCE TO OTHER INSTANCES OF THE SAME IN DIFFERENT CONTEXTS FROM THE PRESENT
2612	<input type="checkbox"/> LINK EACH WORD, MULTWORD EXPRESSION, PHRASE OR SENTENCE TO ONE OR MORE INTERACTIVE GRAMMAR EXERCISES CONCERNING THAT ELEMENT
2614	<input type="checkbox"/> LINK EACH TEXT UNIT (I.E., DOCUMENT, PARAGRAPH, PHRASE, WORD) TO A LIST OF REAL WORLD CLASSES ABOUT IDENTIFIED LANGUAGE
2616	<input checked="" type="checkbox"/> LINK TEXT UNITS TO (I.E., DOCUMENT, PARAGRAPH, PHRASE, WORD) LANGUAGE LEARNING RESOURCES CONCERNING EACH TEXT UNITS

FIG. 26

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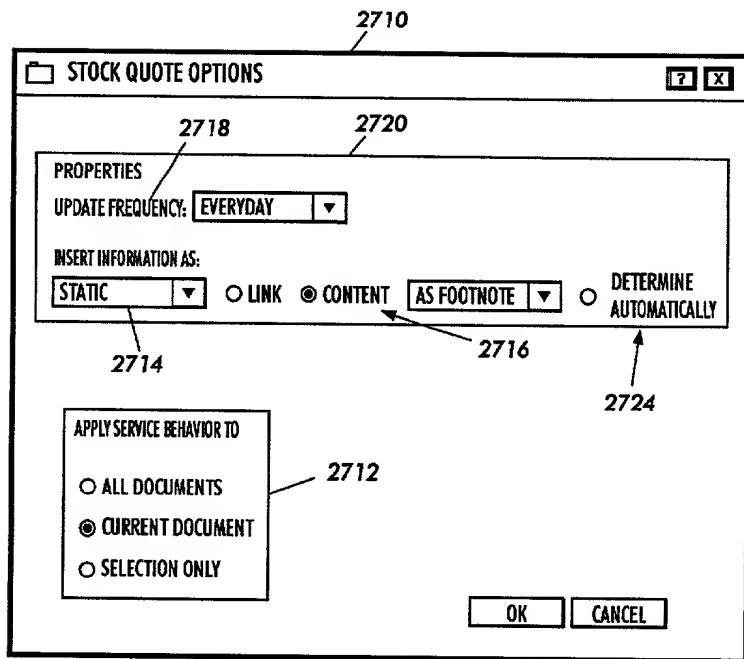


FIG. 27

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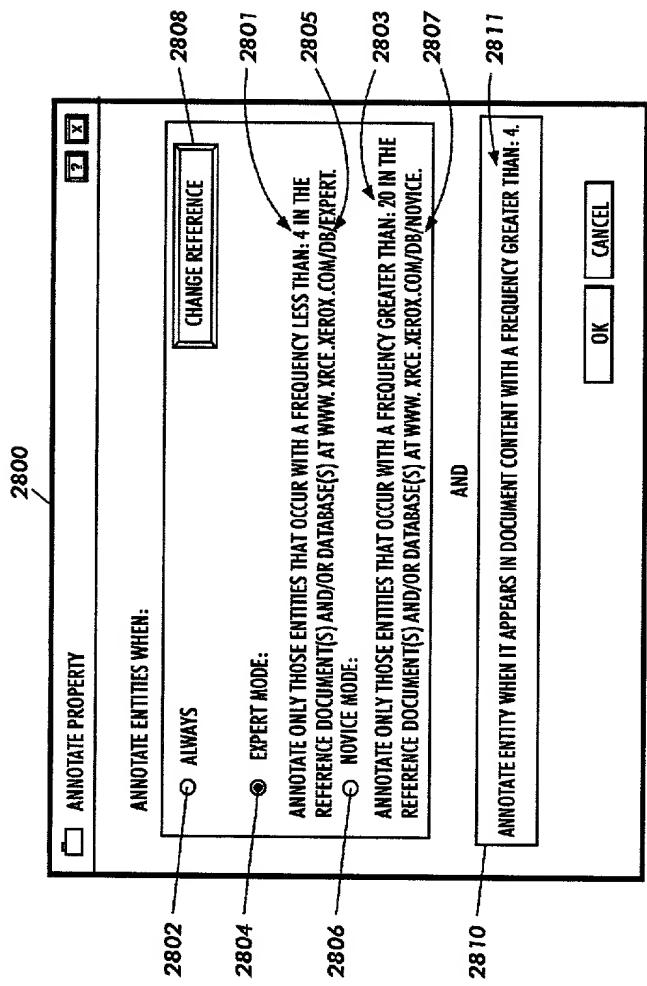


FIG. 28

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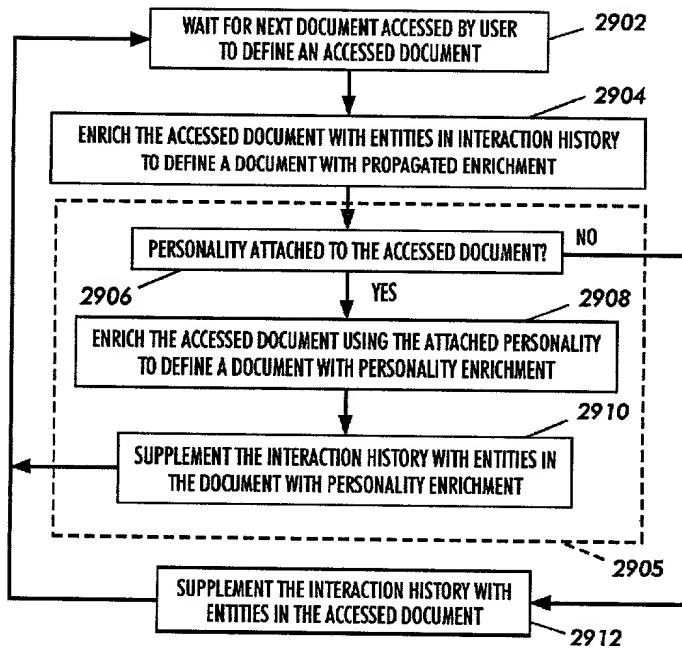


FIG. 29

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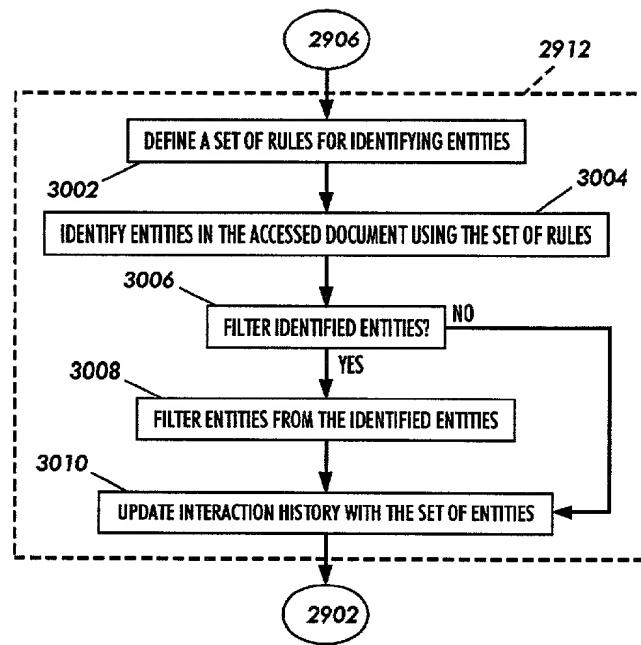


FIG. 30

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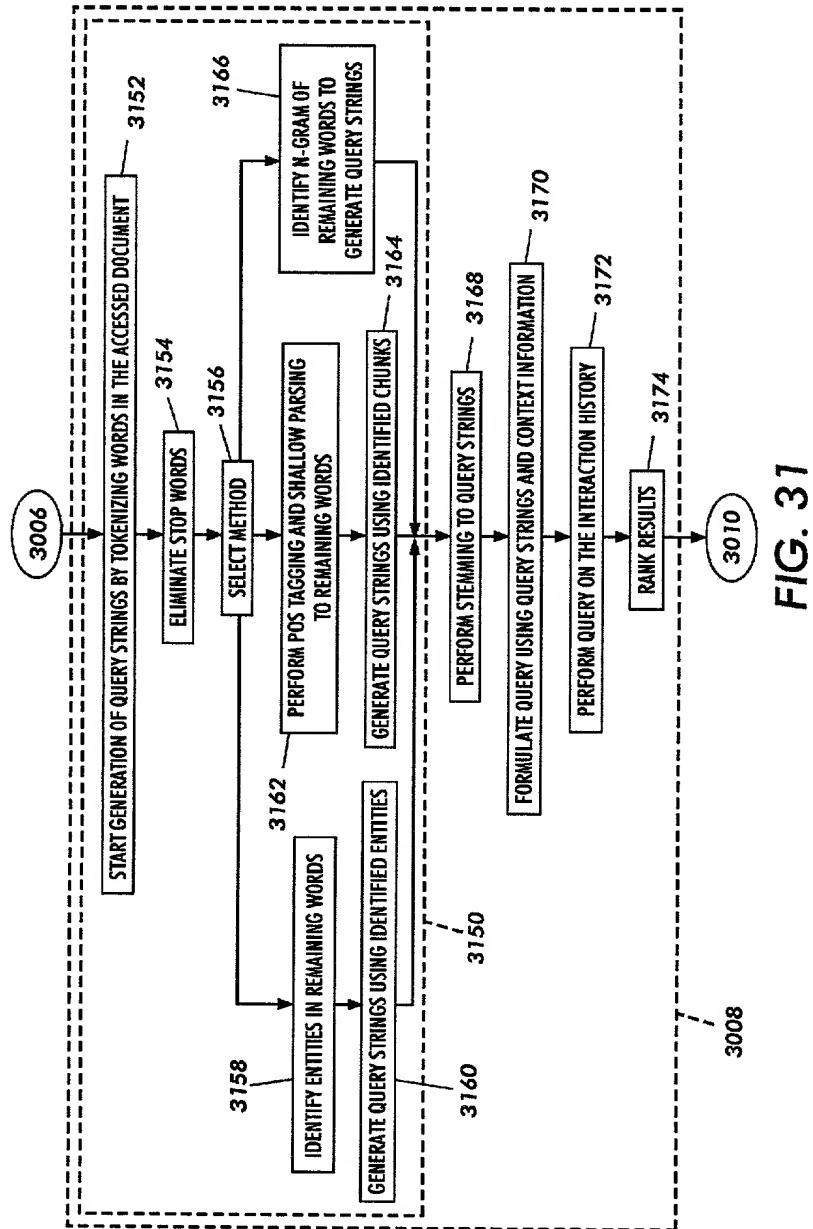


FIG. 31

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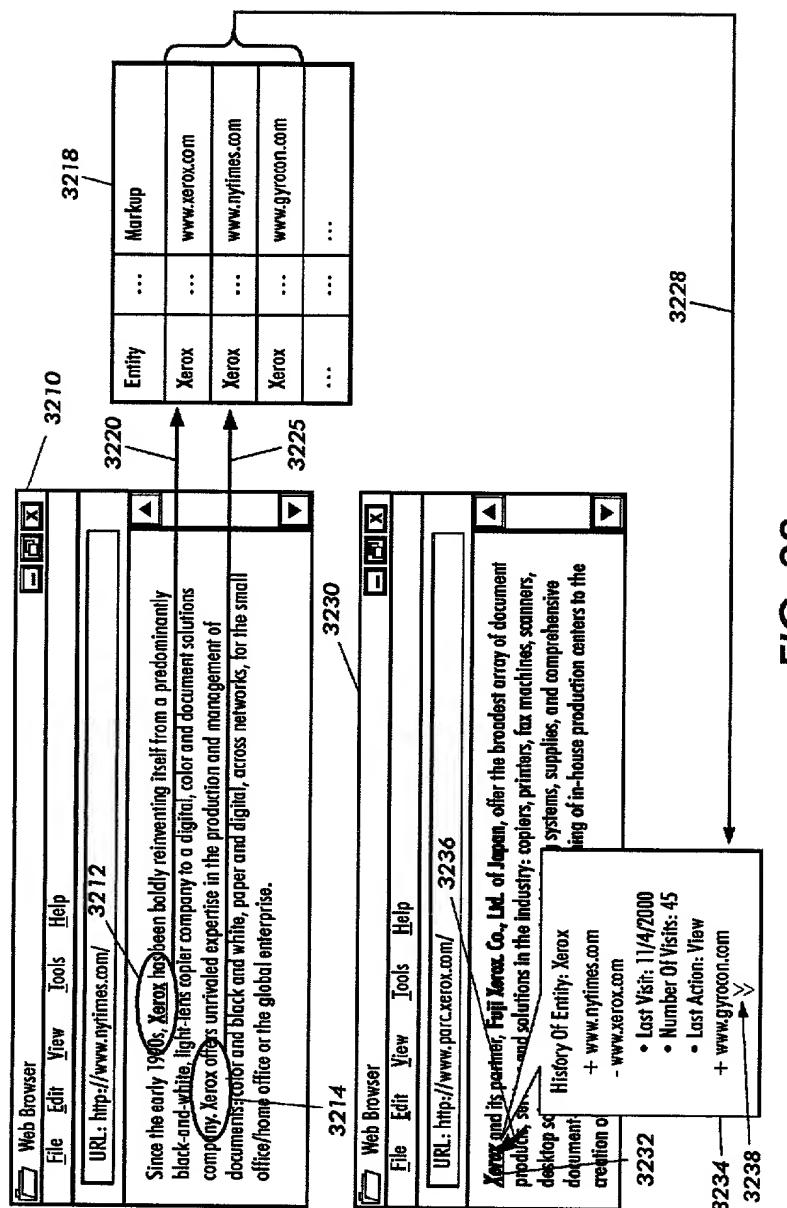


FIG. 32

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ENTITY	ENTITY TYPE	VISITS	LAST VISIT	ACTION LIST	DMOZ CATEGORY	LOCATION	POS	MARKUP
XEROX	BUSINESS	45	11/4/2000	VIEW(43), PRINT(2)	BUSINESS	40	NONN	WWW.XEROX.COM
XEROX	BUSINESS	1	5/1/2001	VIEW(1)	FINANCE	689	NONN	WWW.NYTIMES.COM
XEROX	BUSINESS	4	2/22/2001	EMAIL(1), VIEW(3)	COMPUTER	343	NONN	WWW.GYROLON.COM
...

FIG. 33

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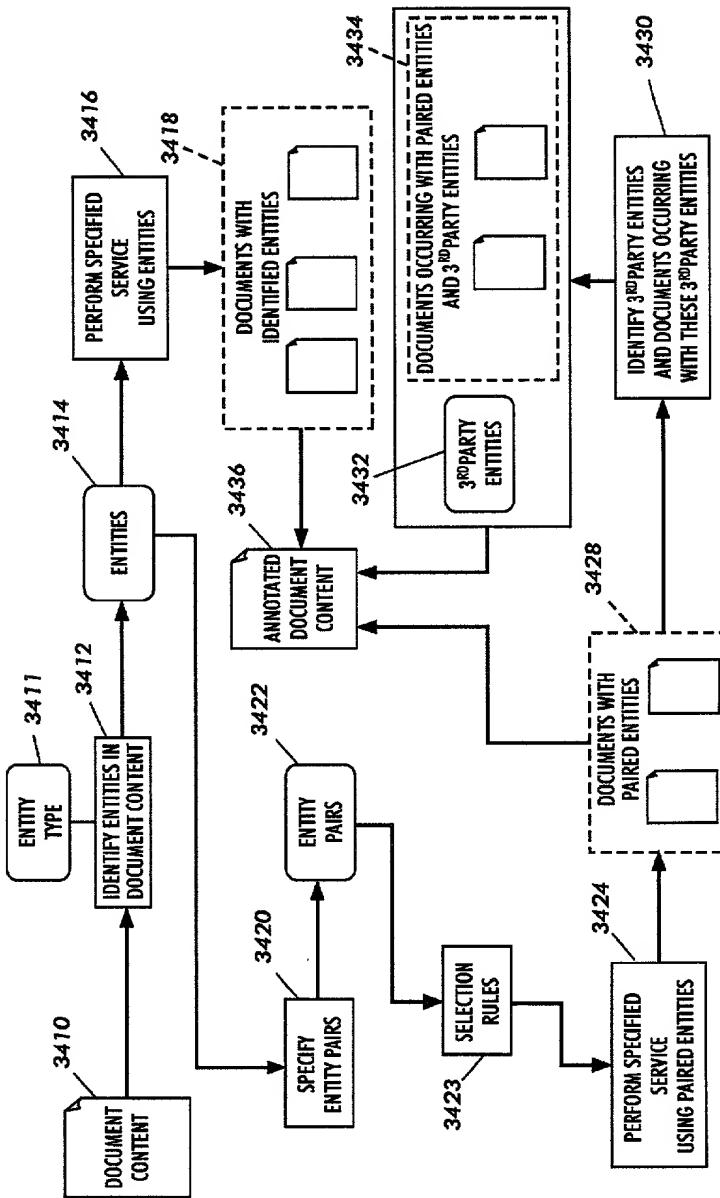


FIG. 34

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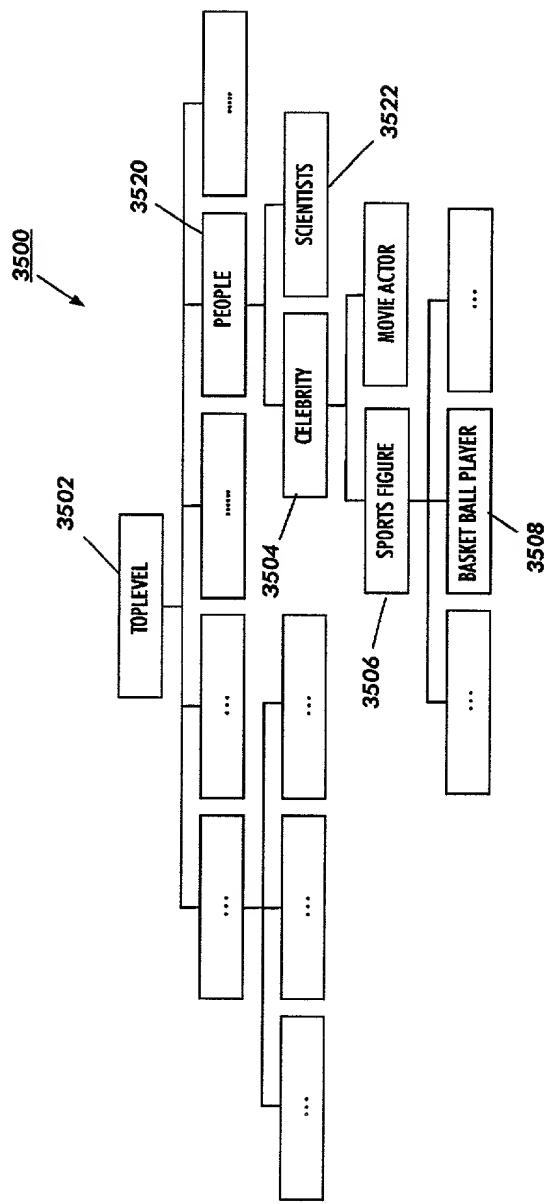


FIG. 35

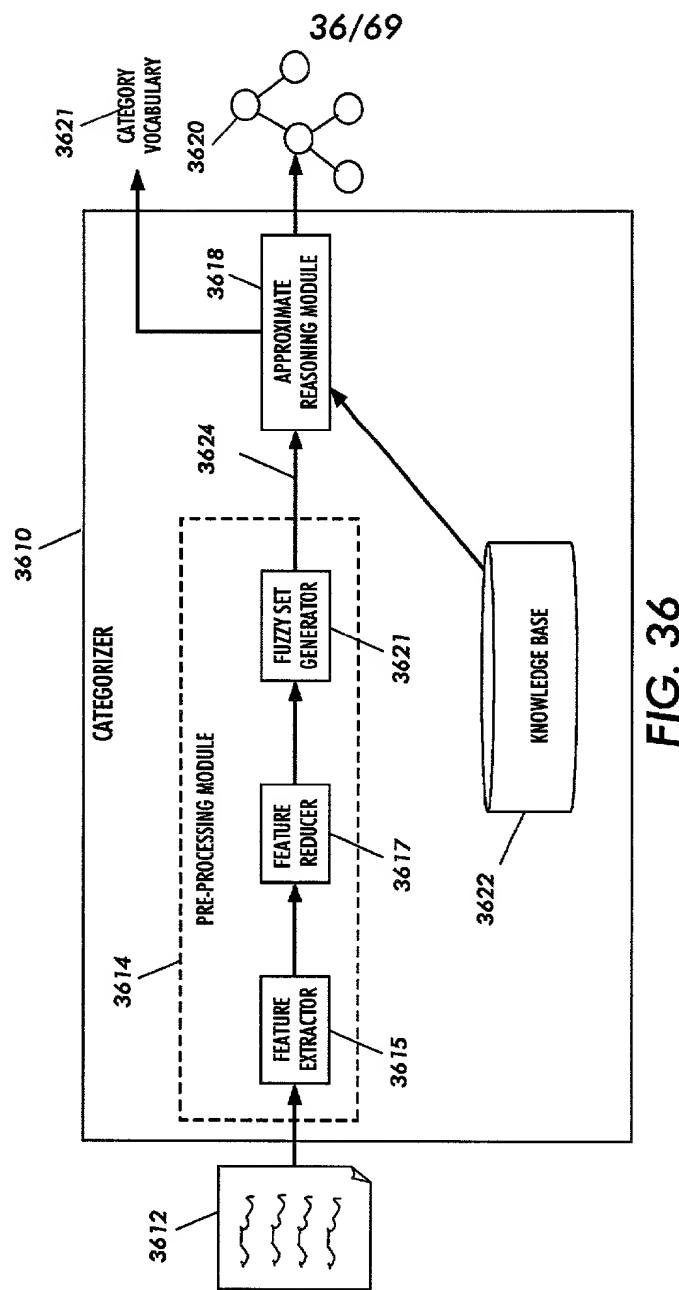
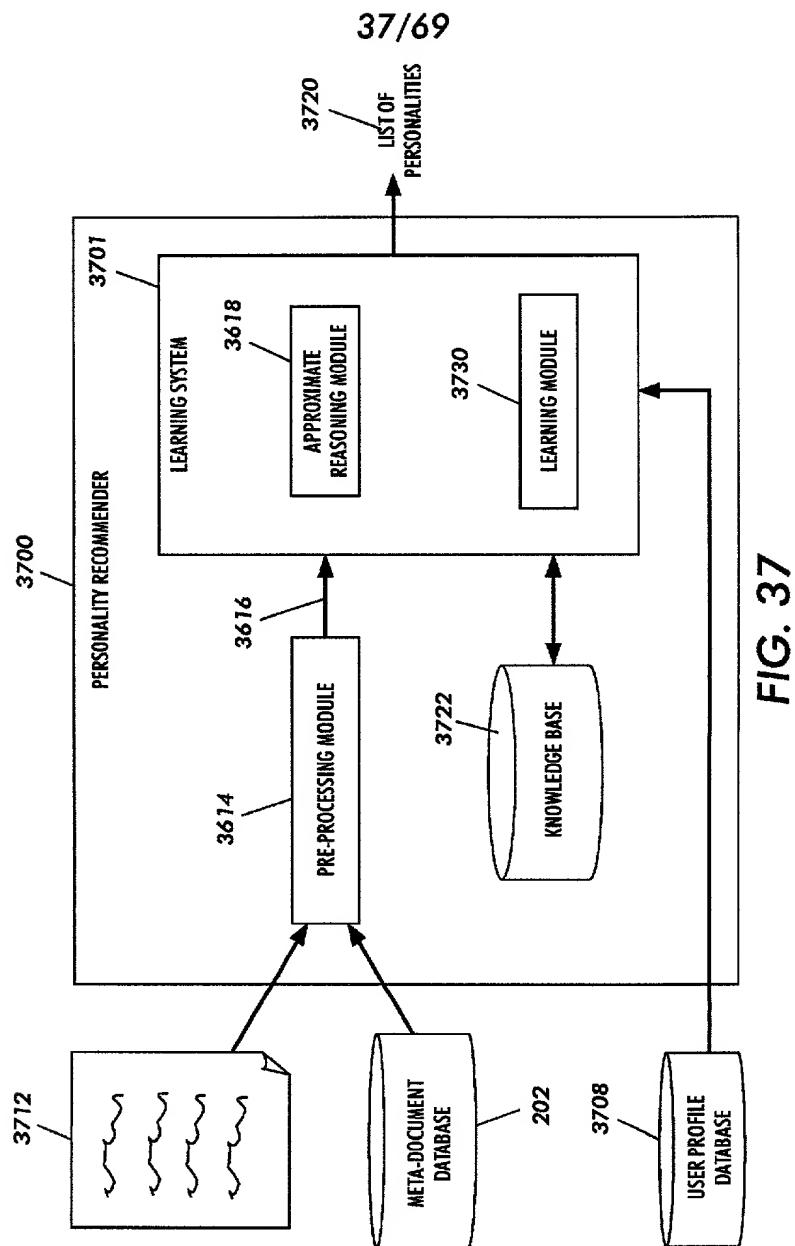


FIG. 36



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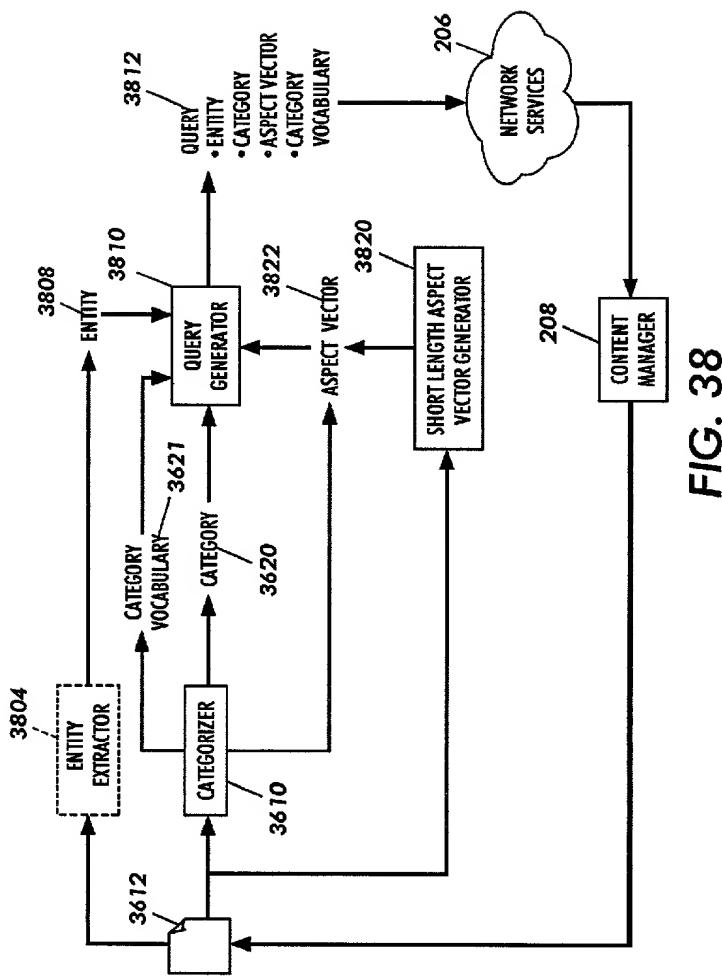


FIG. 38

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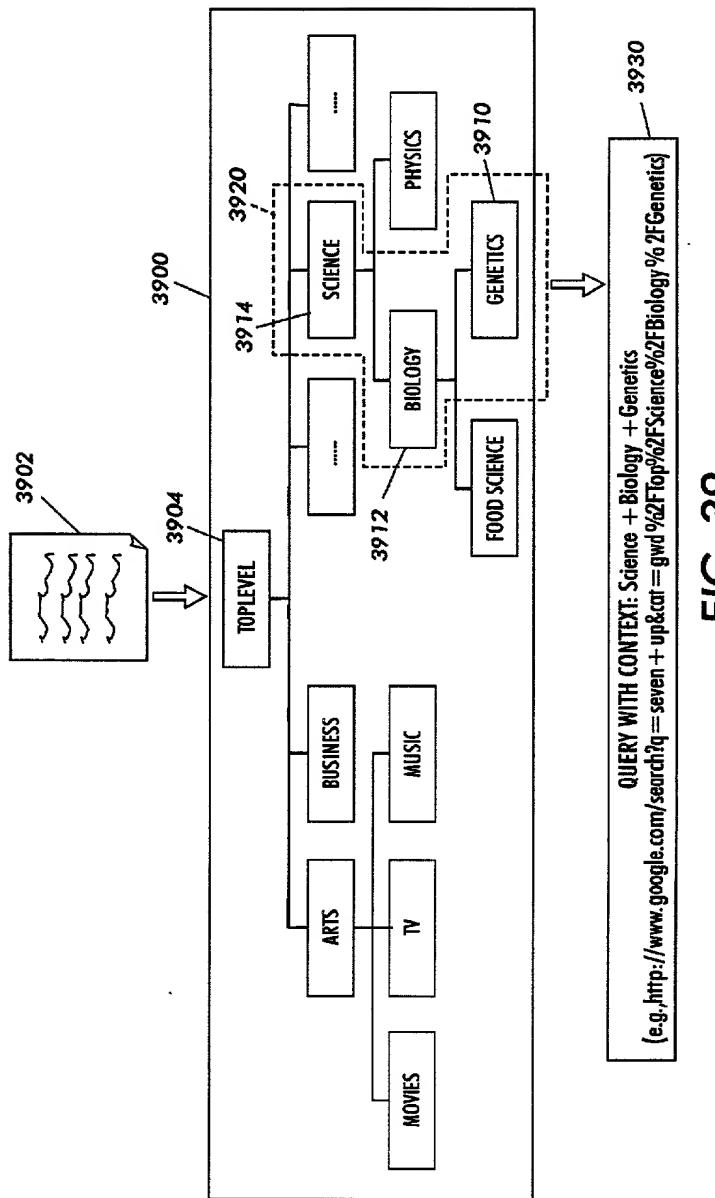


FIG. 39

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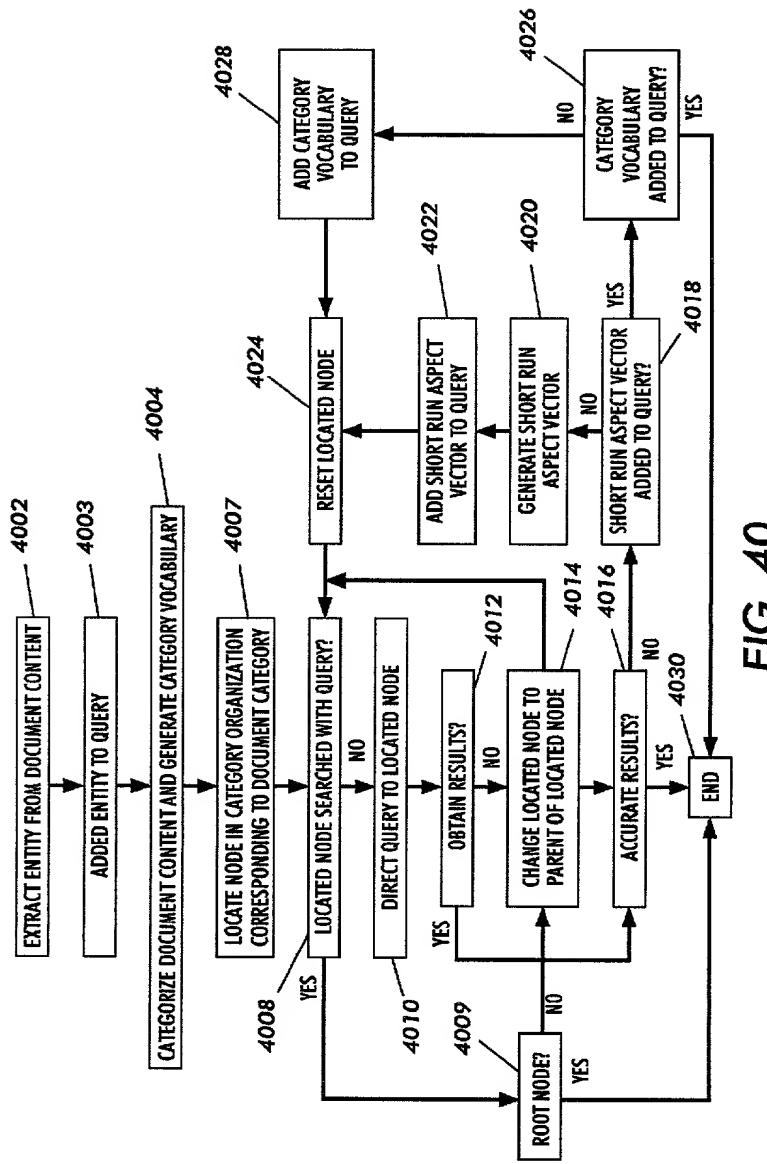


FIG. 40

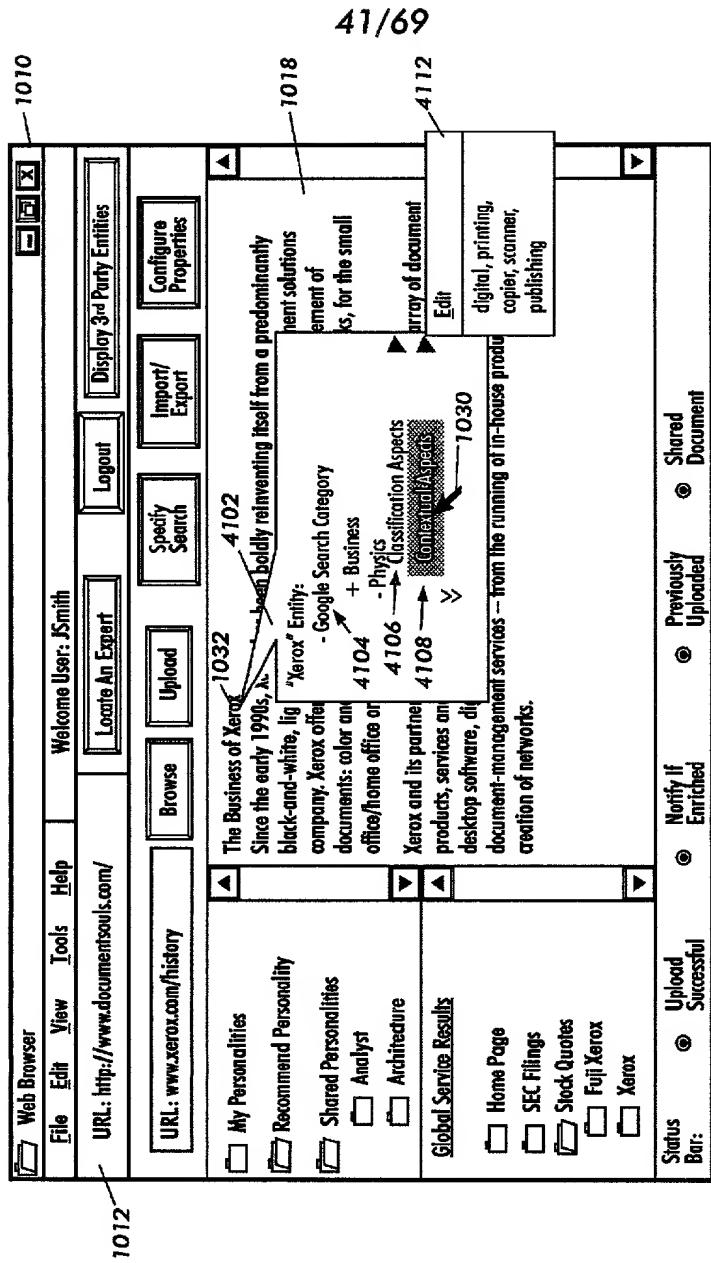


FIG. 41

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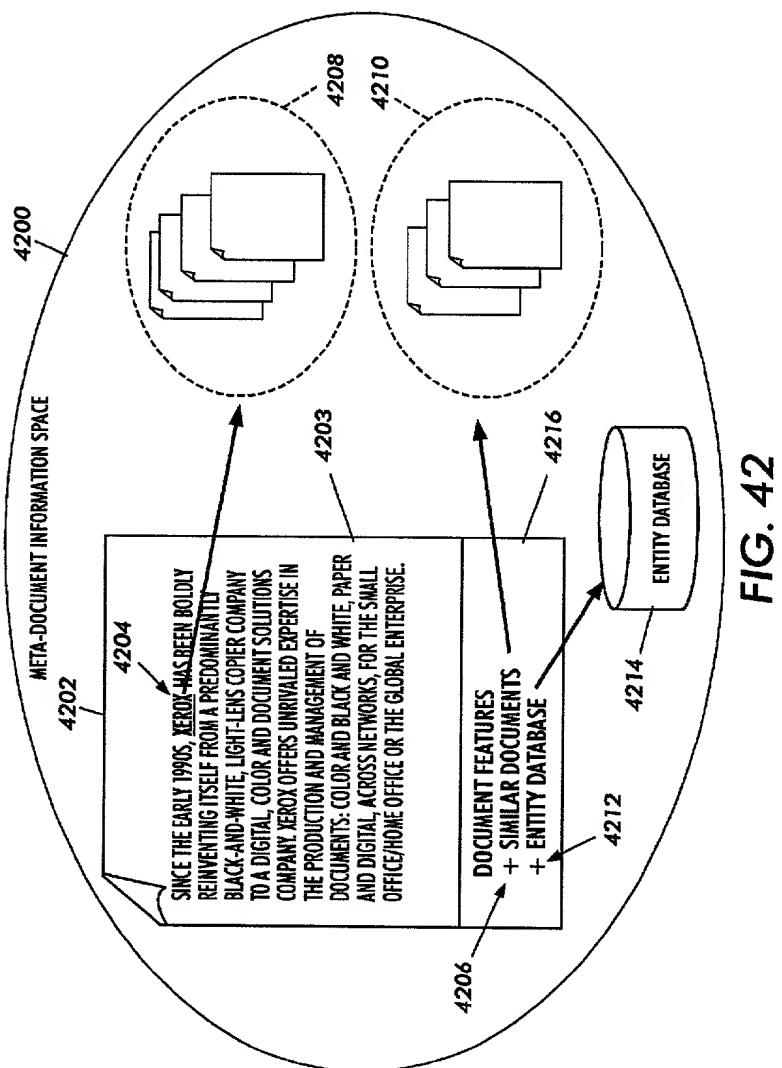


FIG. 42

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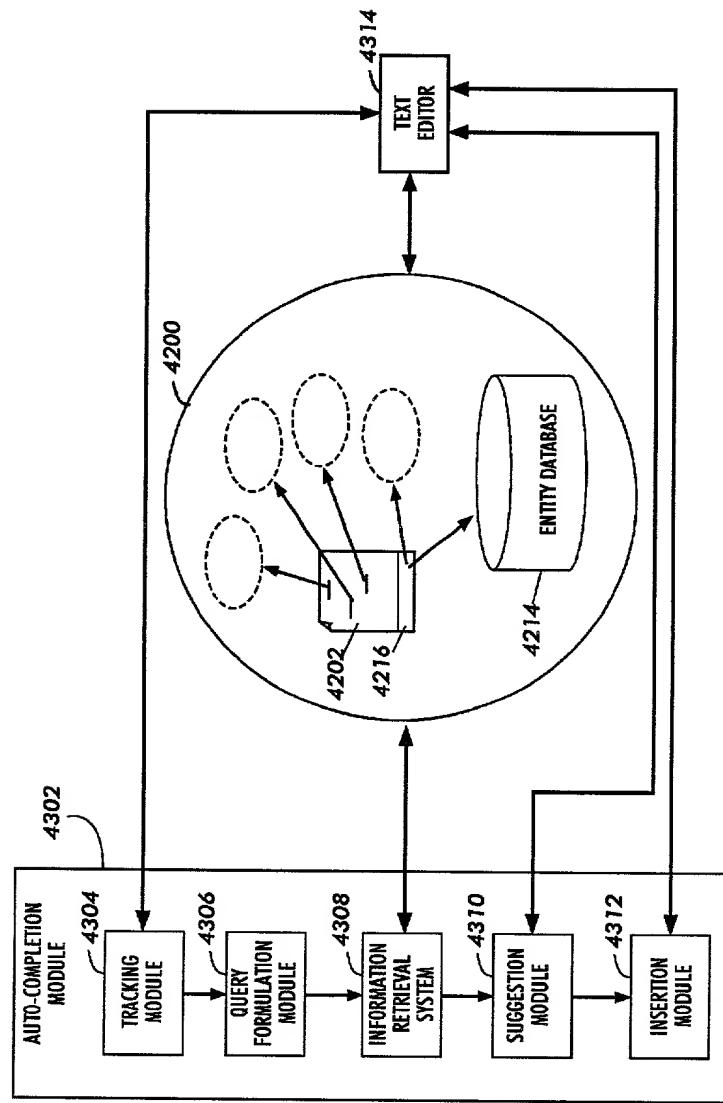
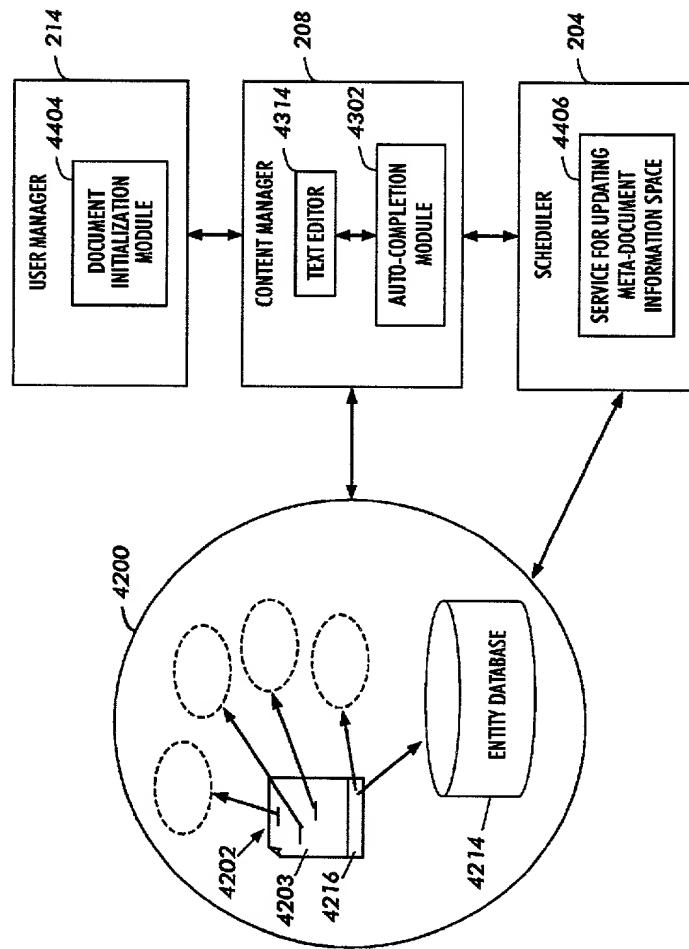


FIG. 43

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FIG. 44



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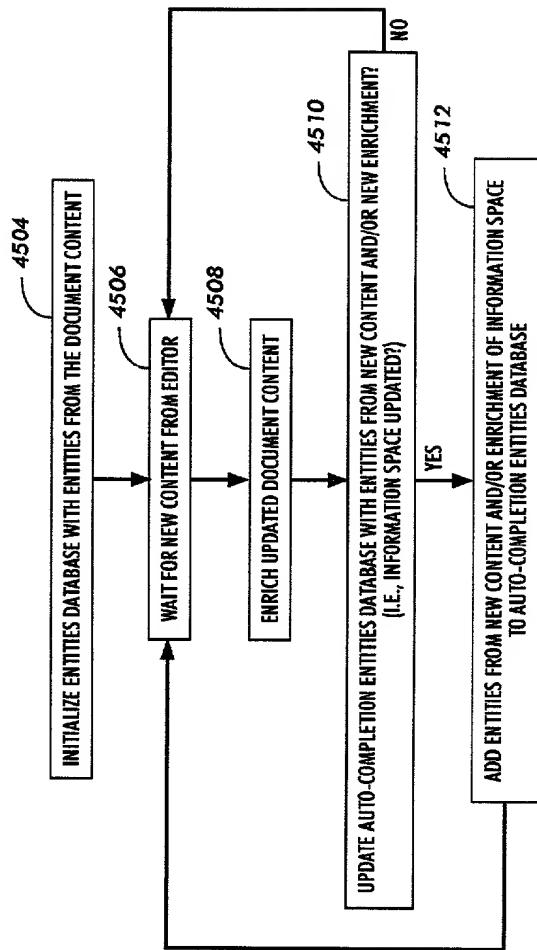


FIG. 45

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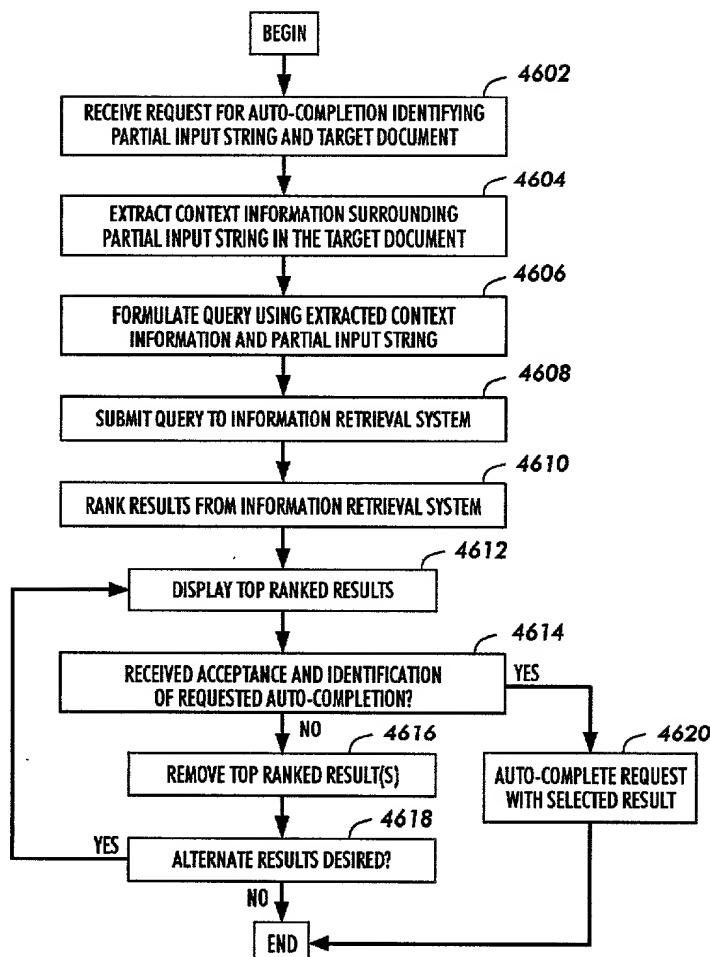
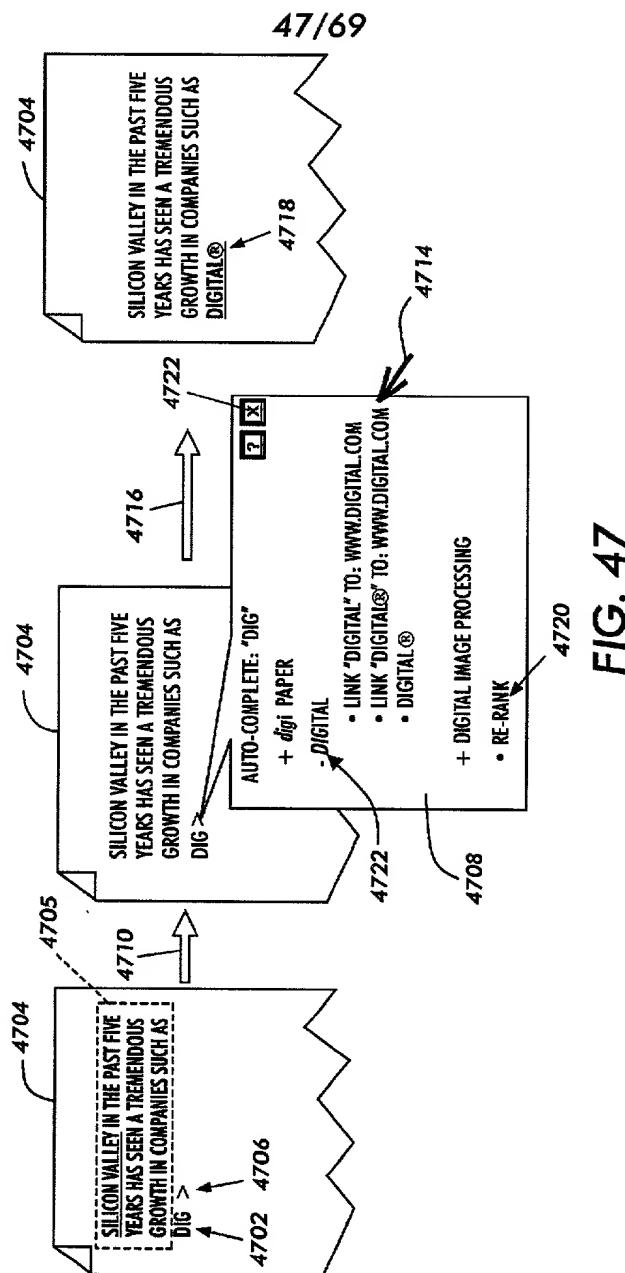


FIG. 46



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(A) KEY	(B) ENTITY	(C) MARKUP	(D) FORMAT	(E) ORIGIN CONTENT	(F) ORIGIN POSITION	(G) PART OF SPEECH	(H) CONTEXT
Sili	Silicon Valley	www.siliconvalley.com	Capitalize	TARGET DOCUMENT	1	Noun	Science
Dig	Digital	www.digital.com	®	www.digital.com	434	Adjective	Science
Dig	DigiPaper	None	Bold	www.parc.xerox.com	23	Noun	Science
Dig	digress	None	None	www.nytimes.com	343	Verb	Politics
...

FIG. 48

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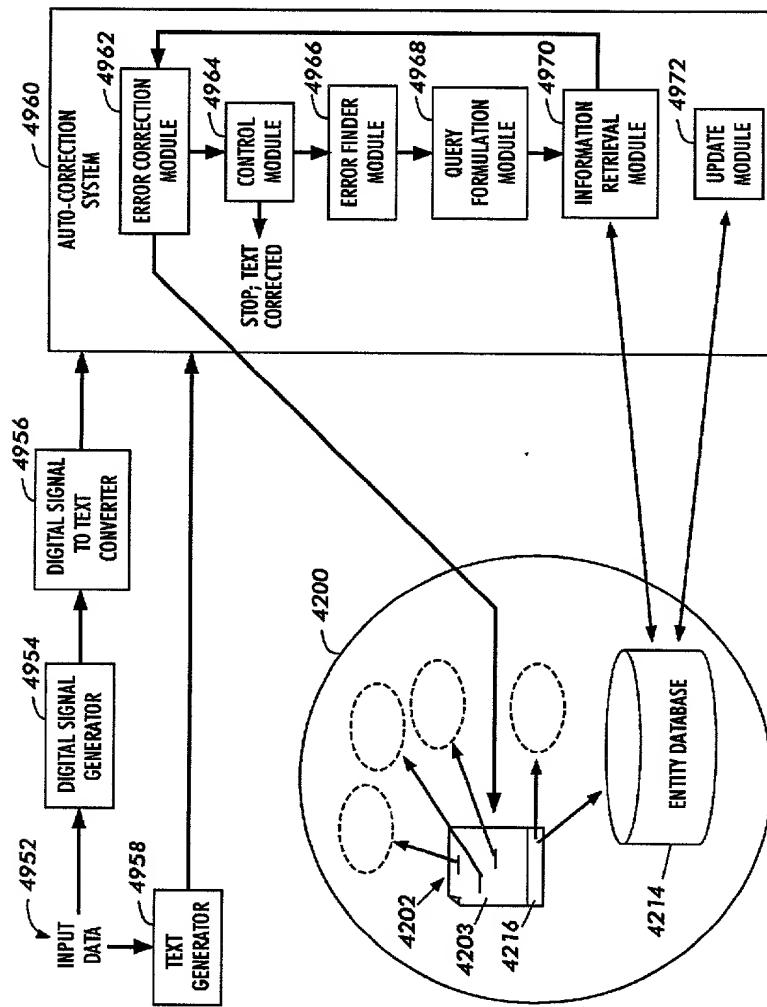


FIG. 49

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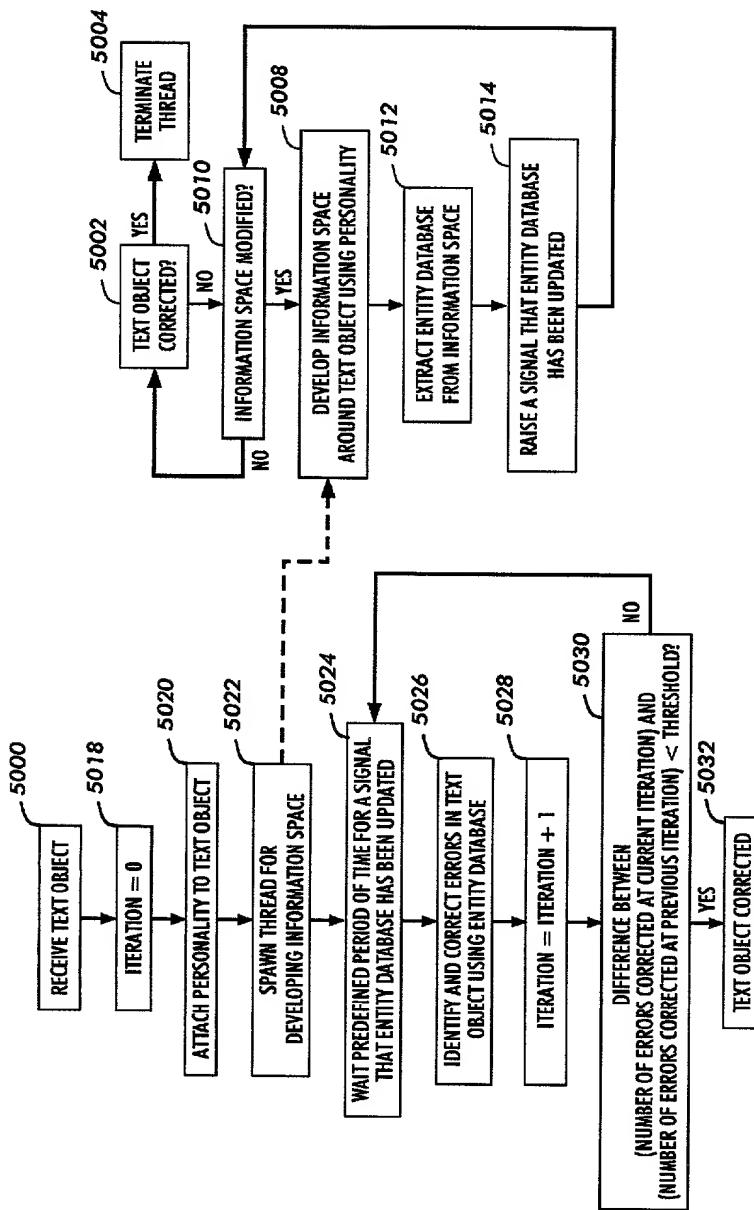


FIG. 50

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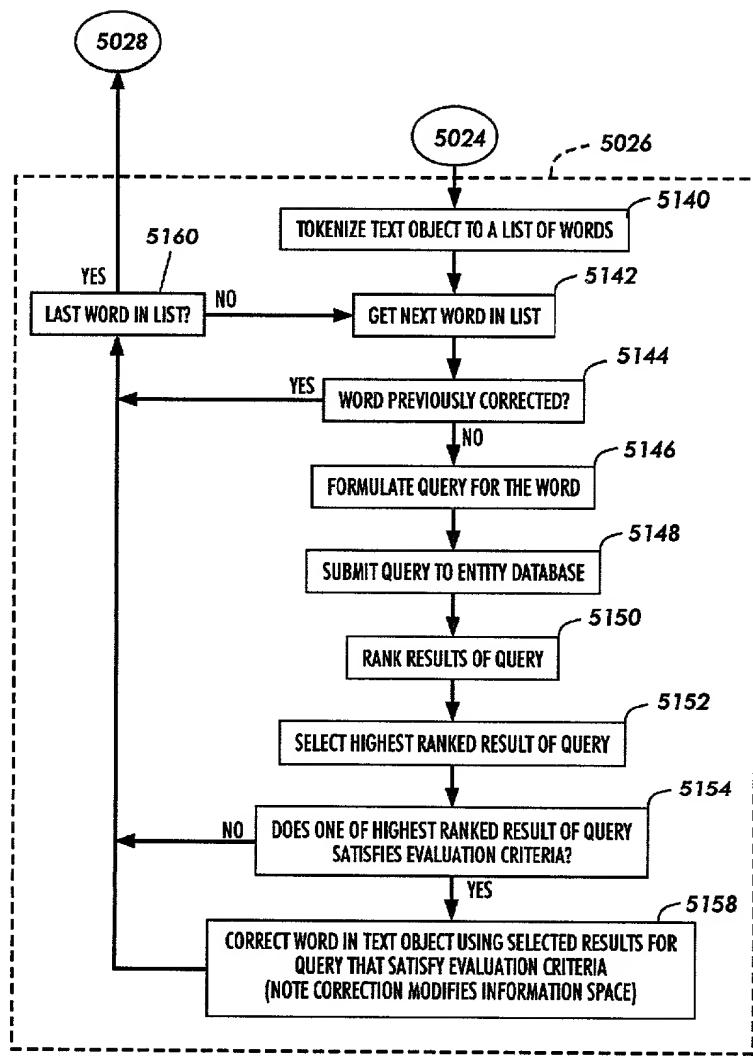


FIG. 51

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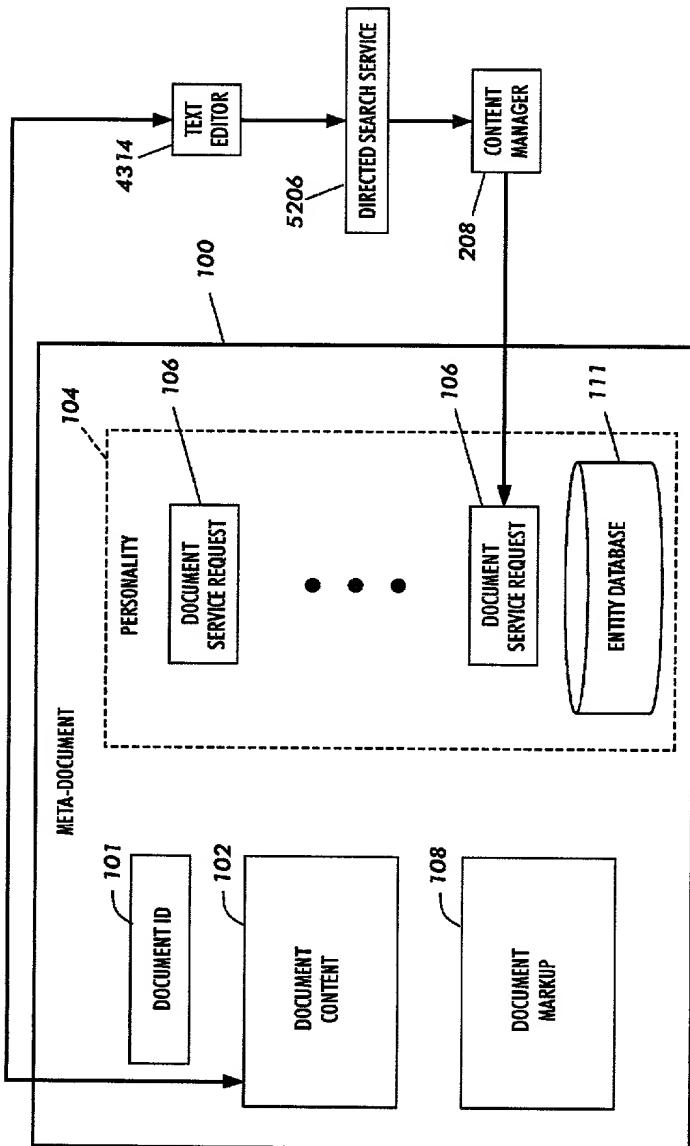


FIG. 52

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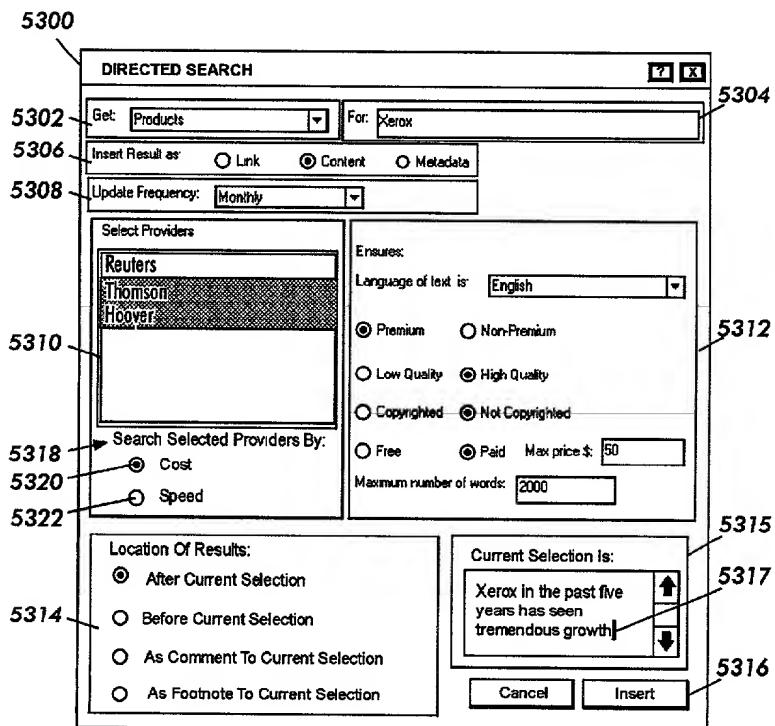


FIG. 53

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```
<service id='Products'

    refresh=30
    insert='Content'
    language='En'
    quality='Premium&High&Not-copyrighted&paid'
    maxprice='50'

    maxwords='2000'
    search='cost'>

<entity>Xerox

<offsets>13 18 456 461 710 715</offsets>
<provider name='Thomson' id=18></provider>
<provider name='Reuters' id=19></provider>
</entity>

</service>
```

FIG. 54

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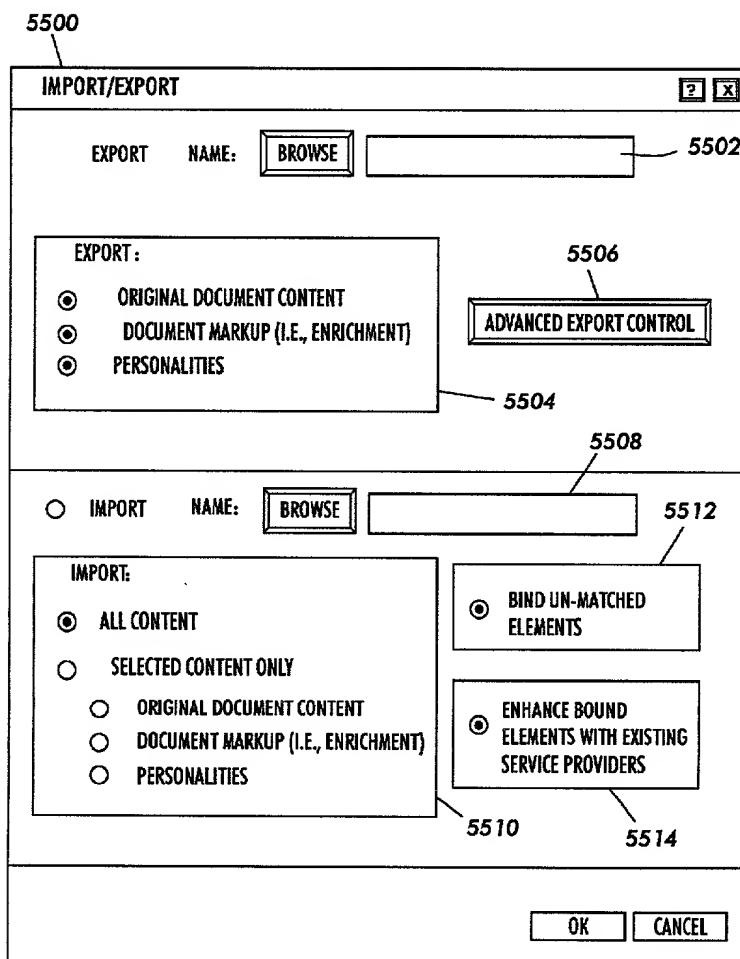


FIG. 55

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```

<!-- SERVER ID>
<docsouls:serverid> DS v1.0 server name </docsouls:serverid>
<!-- PROPERTIES OF DOCUMENT>
<docsouls:docid> xxx </docsouls:docid>
<docsouls:name> xxx </docsouls:name>
<docsouls:owner> xxx </docsouls:owner>
...
<!-- ORIGINAL DOCUMENT CONTENT>
<docsouls:originaldoc format="HTML">foto.html</docsouls:originaldoc>
<docsouls:browsingdoc format="HTML">browse.html</docsouls:browsingdoc>

<!-- LIST OF PERSONALITIES AND DOCUMENT SERVICE REQUESTS>
<docsouls:endowmentdescription>
<!-- LIST OF PERSONALITIES>
<docsouls:personality id = " " name="" etc.>
  <docsouls:service id="" name="" etc.>
    <docsouls:provider name="" etc.>
      <docsouls:provider name="" etc.>
    </docsouls:provider>
  </docsouls:service>
<docsouls:personality>
...
<!-- LIST OF SERVICE REQUESTS>
<docsouls:service id="" name="" etc.>
  <docsouls:provider name="" etc.>
  <docsouls:provider name="" etc.>
</docsouls:service>
...
</docsouls:endowmentdescription>

```

FIG. 56

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```

<!-- DESCRIPTIONS OF PERSONALITIES>
<docsouls:personalitydescription>
  <docsouls:id> xx </docsouls:id>
  <!-- all the fields AND service categories>
  <docsouls:servicecategory id="" name = "">
    </docsouls: personalitydescription>

  <!-- NEXT PERSONALITY DESCRIPTION>
  ...
  ...

<!-- DESCRIPTION OF DOCUMENT SERVICE REQUESTS>
<docsouls:servicedescription>
  <docsouls:id> xx </docsouls:id>
  <!-- list all fields (e.g., "refresh period", category, etc.) >
  <!-- list all providers>
  <docsouls:provider id="" name = "">
    <!-- list all strategies>
    <!-- list status of services (original, frozen, mapped, etc.) >
    <docsouls:servicestatus status="mapped" originalid="" originalserver="">
    <!-- list ServerId if the service was not available on current server>
    <docsouls:serverid>id</docsouls:serverid>
  </docsouls:servicedescription>
  ...
  ...

<!-- NEXT SERVICE REQUESTS DESCRIPTION>
  ...

```

FIG. 57

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```

<!-- DESCRIPTION OF PROVIDERS >
<docsouls:providerdescription>
  <docsouls:id> xx </docsouls:id>
  <!-- all the fields e.g. key, URL, etc. >
</docsouls: providerdescription >

<!-- DESCRIPTION OF DICTIONARIES >
<docsouls:dictionarydescription>
  <docsouls:id> xx </docsouls:id>
  <!-- all the fields, e.g. category >
</docsouls:dictionarydescription>

<!-- DESCRIPTION OF STRATEGY >
<docsouls:strategydescription>
  <docsouls:id> xx </docsouls:id>
  <!-- all the fields >
  <!-- all the dictionaries >
</docsouls:strategydescription>

<!-- RESULTS OF GLOBAL SERVICES >
<docsouls:globalservice id="Summary">
  <docsouls:link> xxx </docsouls:link>
  <docsouls:content> xxx </docsouls:content>
</docsouls:globalservice>

<!-- OTHER RESULTS (E. G. KEYWORDS, CATEGORIES, ETC. >

```

FIG. 58A

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```

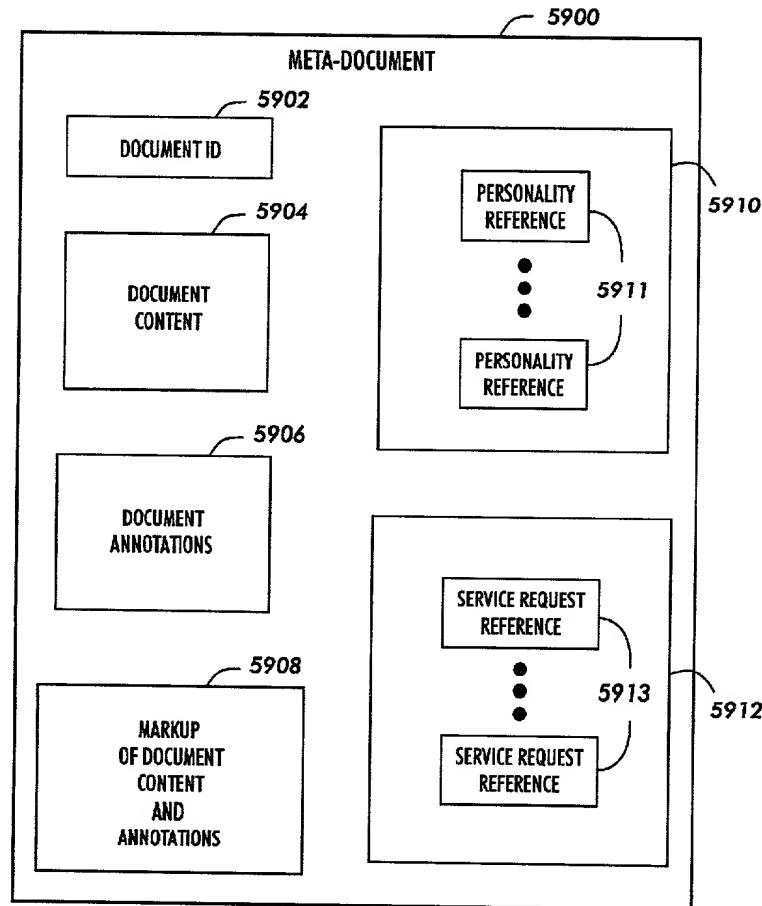
<!-- (OPTIONAL) DESCRIPTION OF ENRICHMENT PERFORMED AT OTHER DOCUMENT ENRICHMENT
SYSTEMS>
<docsouls:serverId>olderServerId</docsouls:serverId>
<docsouls:personalityDescription>...</docsouls:personalityDescription>
<docsouls:serviceDescription>...</docsouls:serviceDescription>

<!-- (OPTIONAL) LIST OF RESULTS OF THE LAST ENRICHMENT >
<!-- IDENTIFY DOCUMENT SECTION IN CASE OF MULTI-PART DOC >
<docsouls:docpart>main_frame.html</docsouls:docpart>
<!-- OFFSET WHEN ENRICHMENT APPLIES TO A SECTION >
<docsouls:offset> 0 200 </docsouls:offset>
<!-- STATUS OF SERVICE APPLIED ("ACTIVE" OR "FROZEN") >
<docsouls:service id="stockQuote" status="active">
<!-- ENTITY >
<docsouls:entity>Xerox
<!-- NORMALIZED FORM >
<docsouls:normalize>Xerox</docsouls:normalize>
<!-- LIST OF OFFSETS WHERE ENTITY IS FOUND IN TEXT RELATIVE TO SECTION >
<docsouls:offsets start=35 end=40 />
<docsouls:offsets start=232 end=237 />
<!-- DICTIONARIES >
<docsouls:dict> xxx </docsouls:dict>
<!-- STRATEGIES >
<docsouls:strat> xxx </docsouls:strat>
<!-- LINK INFORMATION >
<docsouls:link> xxx </docsouls:link>
<!-- CONTENT INFORMATION >
<docsouls:content> xxx </docsouls:content>
<!-- ENTITY >
<!-- NEXT ENTITY >
...
</docsouls:service>

```

FIG. 58B

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**FIG. 59**

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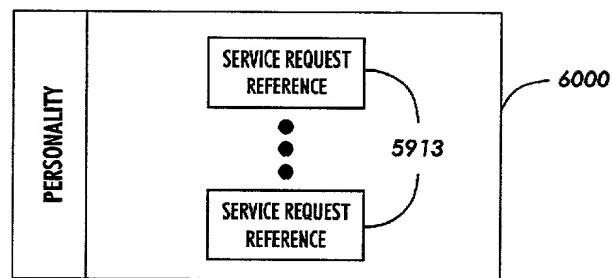


FIG. 60

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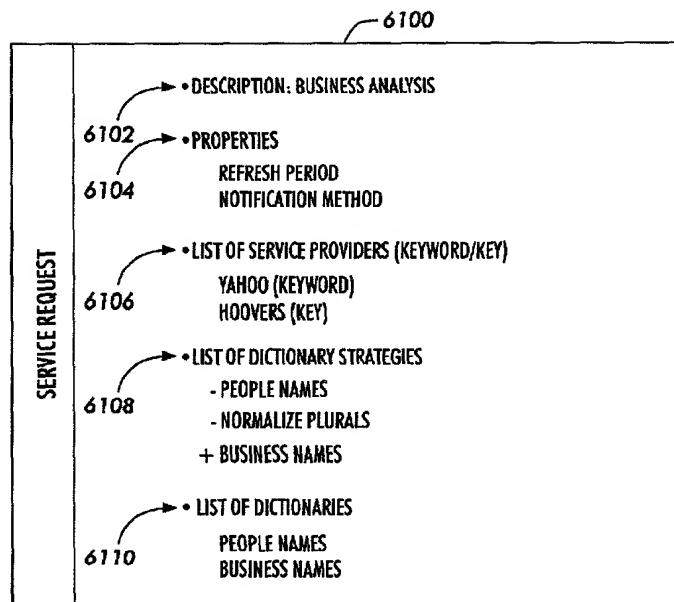


FIG. 61

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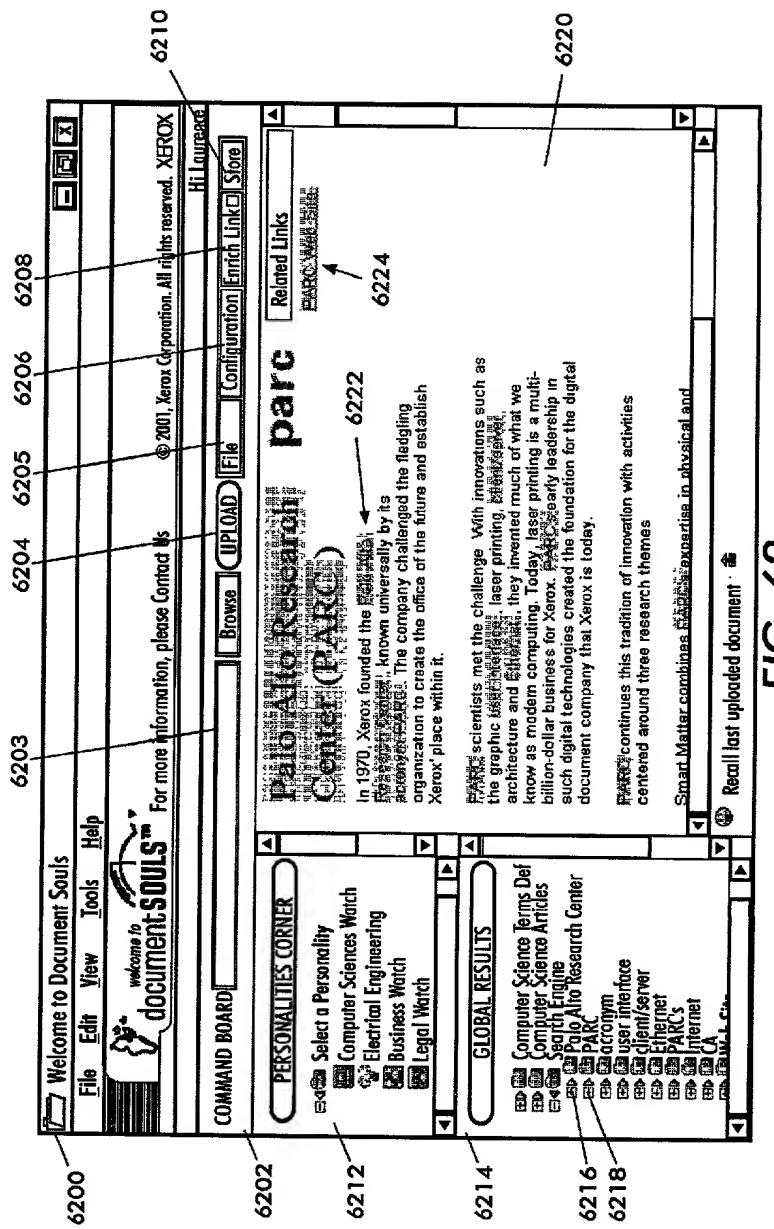


FIG. 62

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6300 / 6302 6304 6308

6300 6306 6310 6312

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FIG. 63

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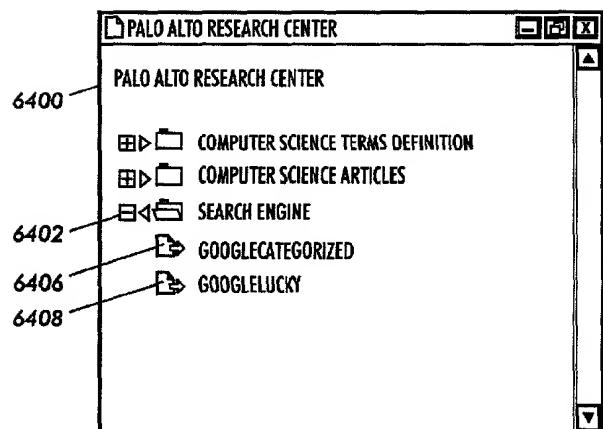


FIG. 64

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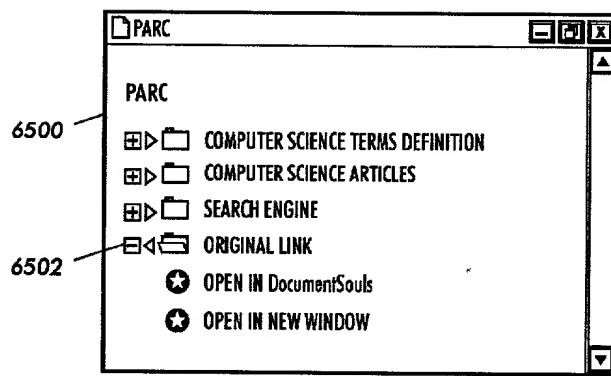


FIG. 65

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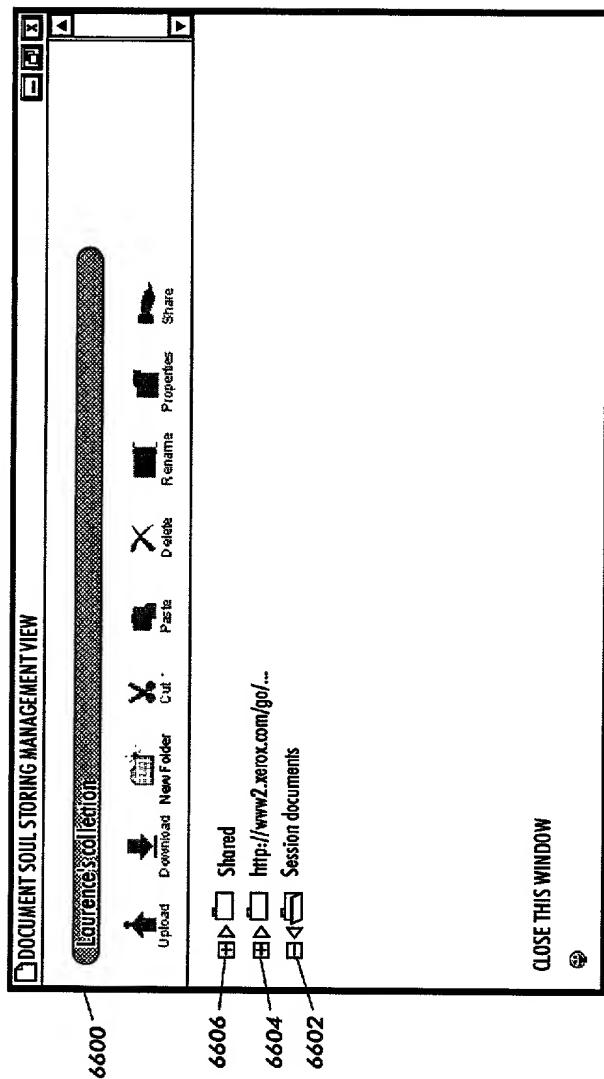
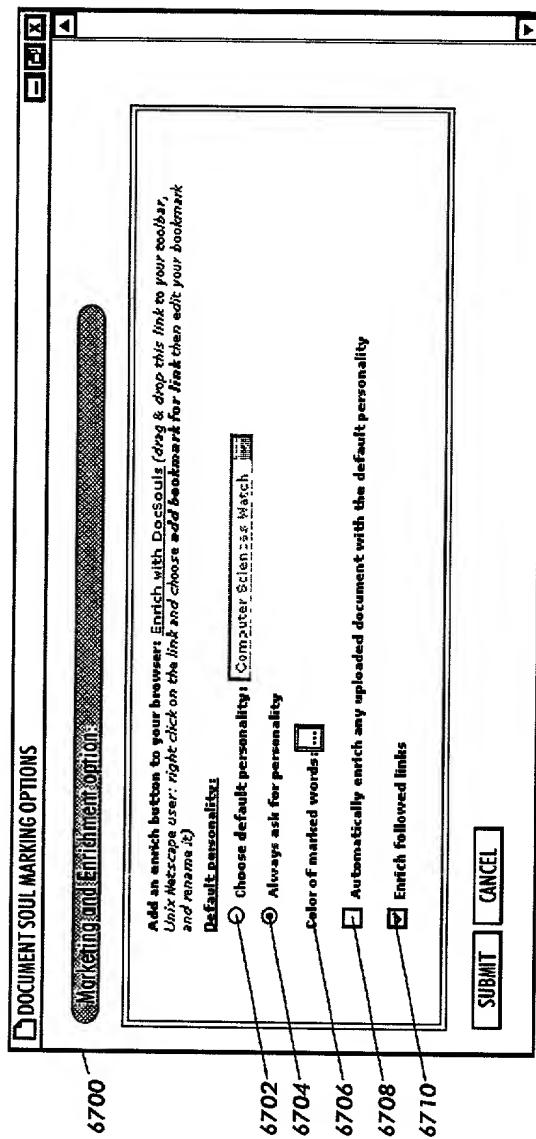


FIG. 66

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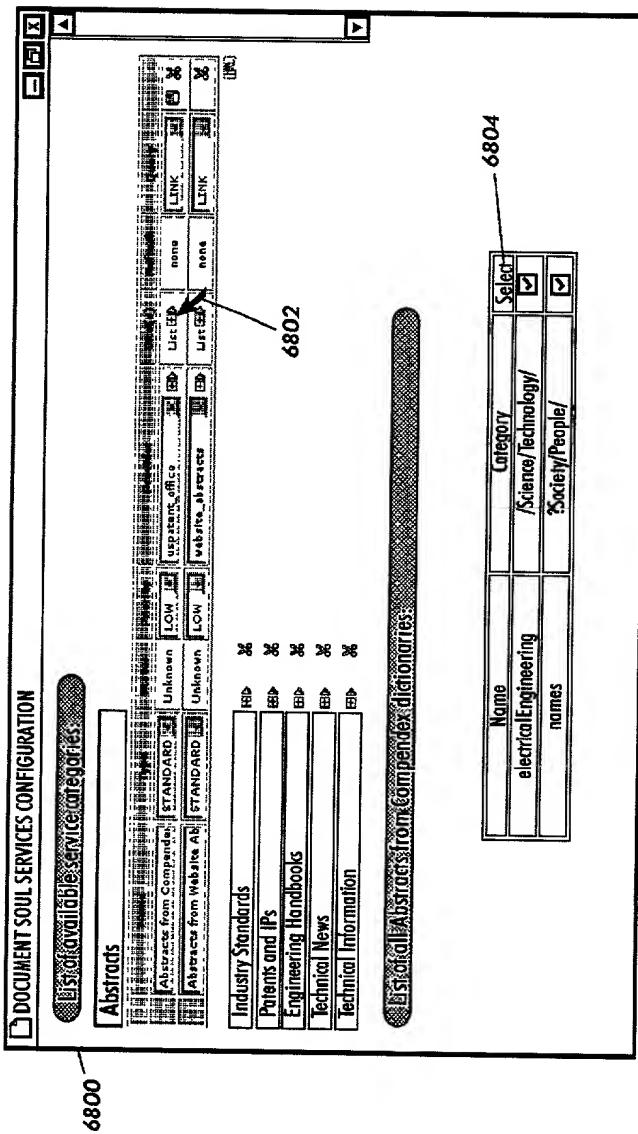


FIG. 68